

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT
CONSTRUCTION PLANS FOR
**SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA
ARROYO LINING**

SAN PEDRO DRIVE TO LOUISIANA BOULEVARD



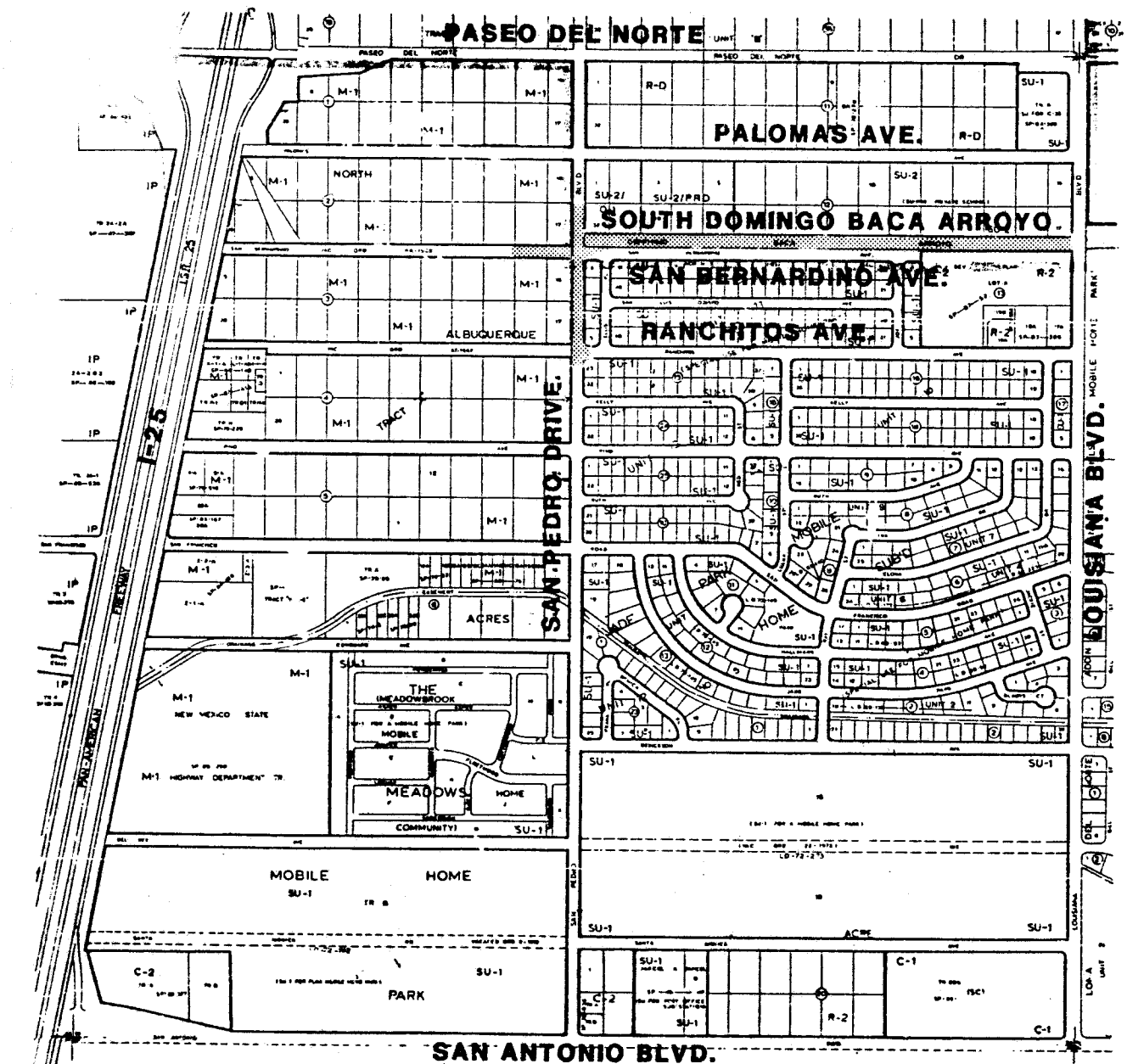
RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 9814

VICINITY MAP



ZONE ATLAS D-18

SHEET INDEX

1. TITLE SHEET
2. SAN PEDRO DRIVE PLAN & PROFILE STA. 7+50 TO STA. 12+00
3. SAN PEDRO DRIVE PLAN & PROFILE STA. 12+00 TO STA. 16+00
4. CHANNEL PLAN & PROFILE STA. 27+00 TO STA. 36+00
5. CHANNEL PLAN & PROFILE STA. 36+00 TO STA. 48+00
6. CHANNEL PLAN & PROFILE STA. 48+00 TO STA. 57+00
7. CHANNEL PLAN & PROFILE STA. 29+90 TO STA. 34+70
8. BRIDGE GENERAL NOTES & ESTIMATED QUANTITIES
9. BRIDGE PLAN & PROFILE
10. BRIDGE TRANSVERSE & LONGITUDINAL SECTIONS
11. BRIDGE VOIDED SLAB BEAM DETAILS
12. BRIDGE ABUTMENT NO. 1 & WINGWALL DETAILS
13. BRIDGE ABUTMENT NO. 2 & WINGWALL DETAILS
14. TYPICAL CHANNEL DETAILS
15. PIPE PENETRATION DETAILS
16. RUNDOWN DETAILS
17. MISCELLANEOUS DETAILS
18. WATER SHUTOFF PLAN
19. SAN PEDRO DRIVE PAVEMENT MARKING PLAN
20. TRAFFIC CONTROL PLAN
21. TRAFFIC CONTROL PLAN
- 22-33. CROSS SECTIONS

APPROVED AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Ronald P. Bohannon
DATE 2-24-93

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION AND CURRENT UPDATES AND SUPPLEMENTAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 280-1990, FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE ALL UTILITY WORK INCLUDING CUT OFF OF EXISTING UTILITIES FOR NEW CONNECTIONS (FIRE PROTECTION, DOMESTIC WATER, SEWER, STORM DRAIN, GAS PIPING, ETC.) WITH ENGINEER, OWNER, AND LOCAL UTILITY REPRESENTATIVES.
3. THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE IMMEDIATE VICINITY OF THE PROPOSED SITE MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. ALL GAS, ELECTRIC, TELEPHONE LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE DONE BY THE RESPONSIBLE UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
5. THE CONTRACTOR SHALL PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
7. ALL EXCAVATION/CONSTRUCTION PERMITS WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
8. THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.
9. DISPOSAL OF ALL WASTE MATERIAL AND UNSUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 8.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
10. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVING, CONCRETE CURBS AND SIDEWALKS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE FIELD ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
11. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY AND SHALL PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. TEMPORARY ACCESS CLOSURES SHALL BE SUBJECT TO PRIOR APPROVAL BY THE PROJECT ENGINEER. CONTRACTOR SHALL SCHEDULE CLOSURES WITH AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF CLOSURE.
13. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE PROJECT ENGINEER, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT.
14. THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE AND SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO CONSTRUCTION COORDINATION A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION TO RECEIVE A BARRICADING PERMIT. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE BARRICADE ENGINEER (786-2551). REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
15. THE CONTRACTOR SHALL PLACE THE PERMANENT PAVEMENT MARKINGS AS REQUIRED BY THE PLANS AND SPECIFICATIONS.
16. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
17. EXISTING IMPROVEMENTS NOT SHOWN TO BE REMOVED UNDER THIS CONTRACT WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
18. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.

19. ALL EXISTING MANHOLES AND VALVE BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO THE NEW FINISH GRADE AS PART OF THE PAVING OPERATIONS.
20. SUITABLE RIPRAP MATERIAL EXISTING WITHIN THE LIMITS OF CONSTRUCTION MAY BE REMOVED AND STOCKPILED BY THE CONTRACTOR FOR USE ON THIS PROJECT AS DIRECTED BY THE ENGINEER.
21. CONTRACTOR SHALL RESEED ALL DISTURBED SOIL AREAS WITHIN THE WORK AREA IN ACCORDANCE WITH SPECIFICATION SECTION 1011.
22. ALL CONCRETE SHALL BE 4000 PSI 28 DAY STRENGTH IN ACCORDANCE WITH PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED.
23. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS UNLESS OTHERWISE NOTED.
24. ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.
25. CHANNEL REINFORCING STEEL SHALL BE SUPPORTED ON CONTINUOUS 3" HIGH SAND CHAIRS AT A MAXIMUM SPACING OF 5' OC PERPENDICULAR TO THE CHANNEL CENTERLINE.
26. WARP CHANNEL TIE SLOPES WHERE REQUIRED TO REMAIN WITHIN CHANNEL RIGHT-OF-WAY OR EASEMENT.
27. CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR THE CONTROL OF STORM AND NUISANCE WATER DURING CONSTRUCTION IN ACCORDANCE WITH SUPPLEMENTAL TECHNICAL SPECIFICATION SECTION 625.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION AND PAVING SHALL BE ACCORDING TO C.O.A. STD. DWG. 2465.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSSED FOR A HANDICAP RAMP, THE RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

LEGEND

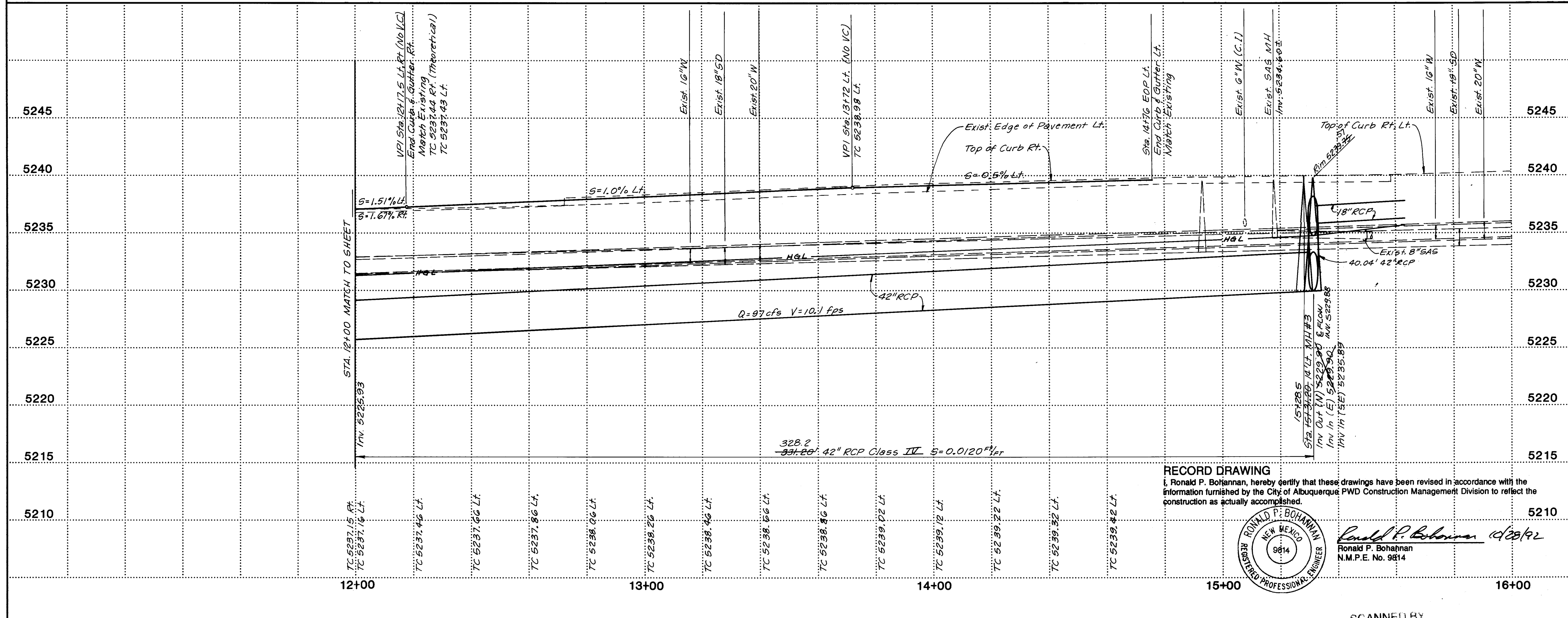
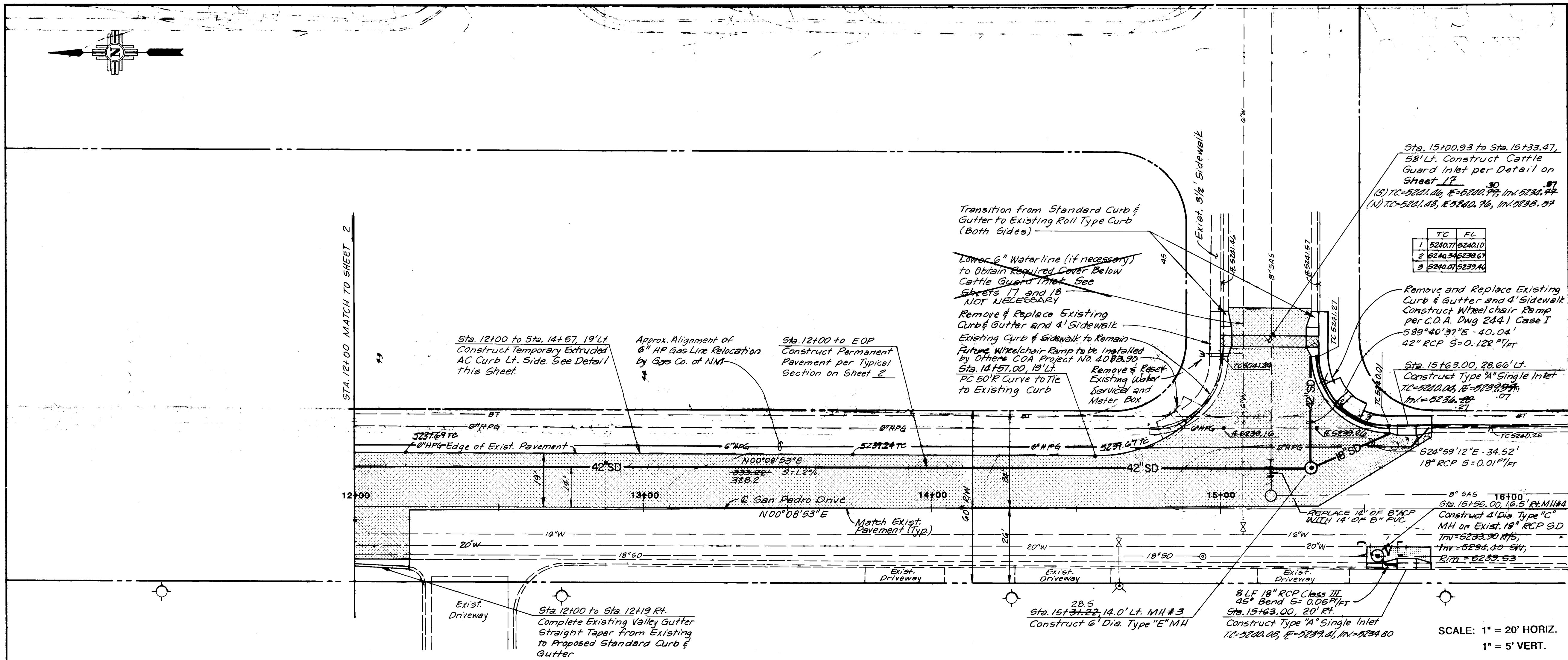
NEW	EXISTING	DESCRIPTION
---	---	RIGHT-OF-WAY
---SAS---	---SAS---	SANITARY SEWER LINE
---W---	---W---	WATER LINE
---SD---	---SD---	STORM DRAIN LINE
---	---	GAS LINE
---	---	OVERHEAD ELECTRIC LINE
---	---	BURIED TELEPHONE LINE
---	---	GUARD RAIL
---	---	FENCE
---	---	CONTOUR
56.25	54.16	SPOT ELEVATION
○	○	SANITARY SEWER MANHOLE
⊗	⊗	STORM DRAIN MANHOLE
⊕	⊕	WATER VALVE
⊙	⊙	FIRE HYDRANT
⊛	⊛	POWER POLE
⊞	⊞	STREET LIGHT
---	---	CHANNEL

SCANNED BY
BY LASON

26 1160 900193

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							

	EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS 10131 Coors Rd., NW, Suite H-718 ALBUQUERQUE, NEW MEXICO 87114 (505) 898-6021 FAX (505) 898-8501	APPROVED FOR CONSTRUCTION <i>Ronald P. Bohannon</i> CITY ENGINEER 11/9/92 DATE
	PROJECT NUMBER 4160.90	PLAN SET NUMBER SHEET 1 OF 33



NOTES:

- CONTRACTOR SHALL PHASE CONSTRUCTION OF SAN PEDRO DRIVE IMPROVEMENTS IN ACCORDANCE WITH TRAFFIC CONTROL PLAN REQUIREMENTS. SEE TRAFFIC CONTROL PLANS SHEETS 20 AND 21.
- SEE TYPICAL SECTIONS SHEET 19.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	ELEV.	DATE	NO.	BY	NO.	BY
CONTRACTOR	DATE	ELEV.	DATE	NO.	BY	NO.	BY
11-01-18	11-01-18	5235.67	11-01-18	1	THOMAS R. MANN	1	THOMAS R. MANN
11-01-18	11-01-18	5235.67	11-01-18	2	THOMAS R. MANN	2	THOMAS R. MANN
11-01-18	11-01-18	5235.67	11-01-18	3	THOMAS R. MANN	3	THOMAS R. MANN

REVISIONS

NO.	DATE	REVISIONS
1	11-01-18	DESIGN
2	11-01-18	DESIGN
3	11-01-18	DESIGN
4	11-01-18	DESIGN
5	11-01-18	DESIGN
6	11-01-18	DESIGN
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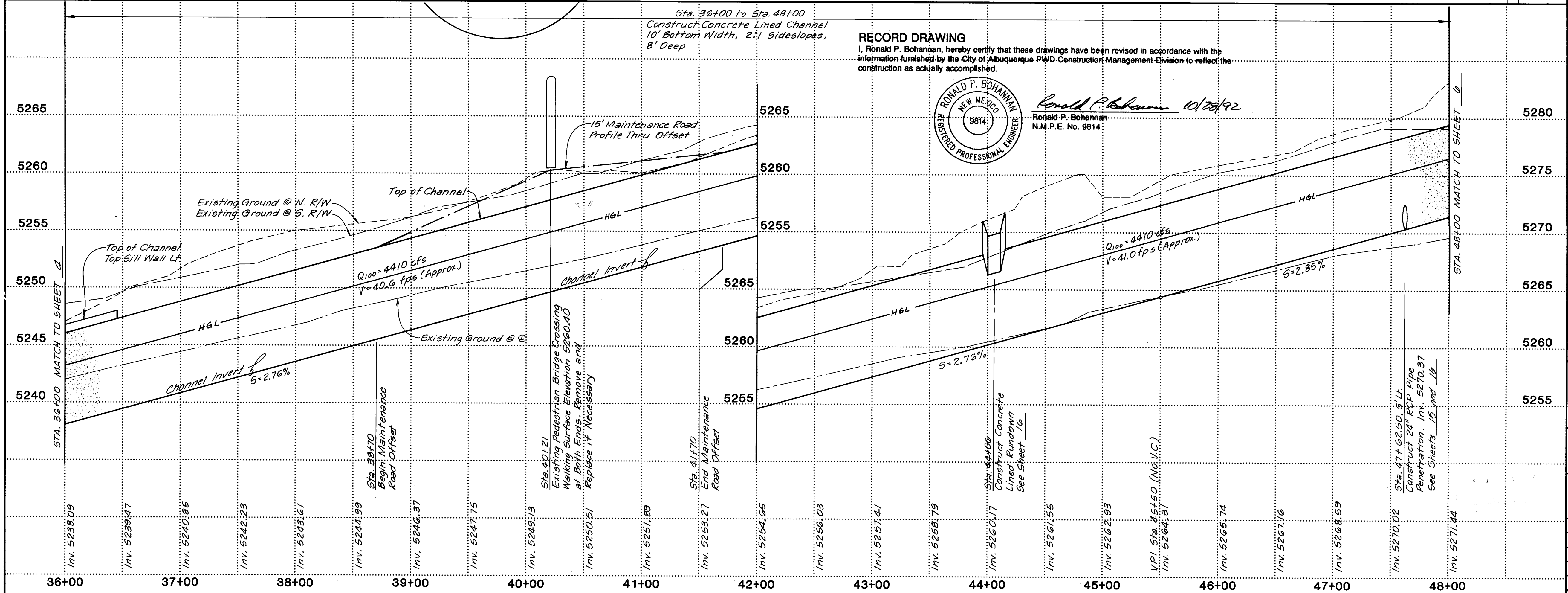
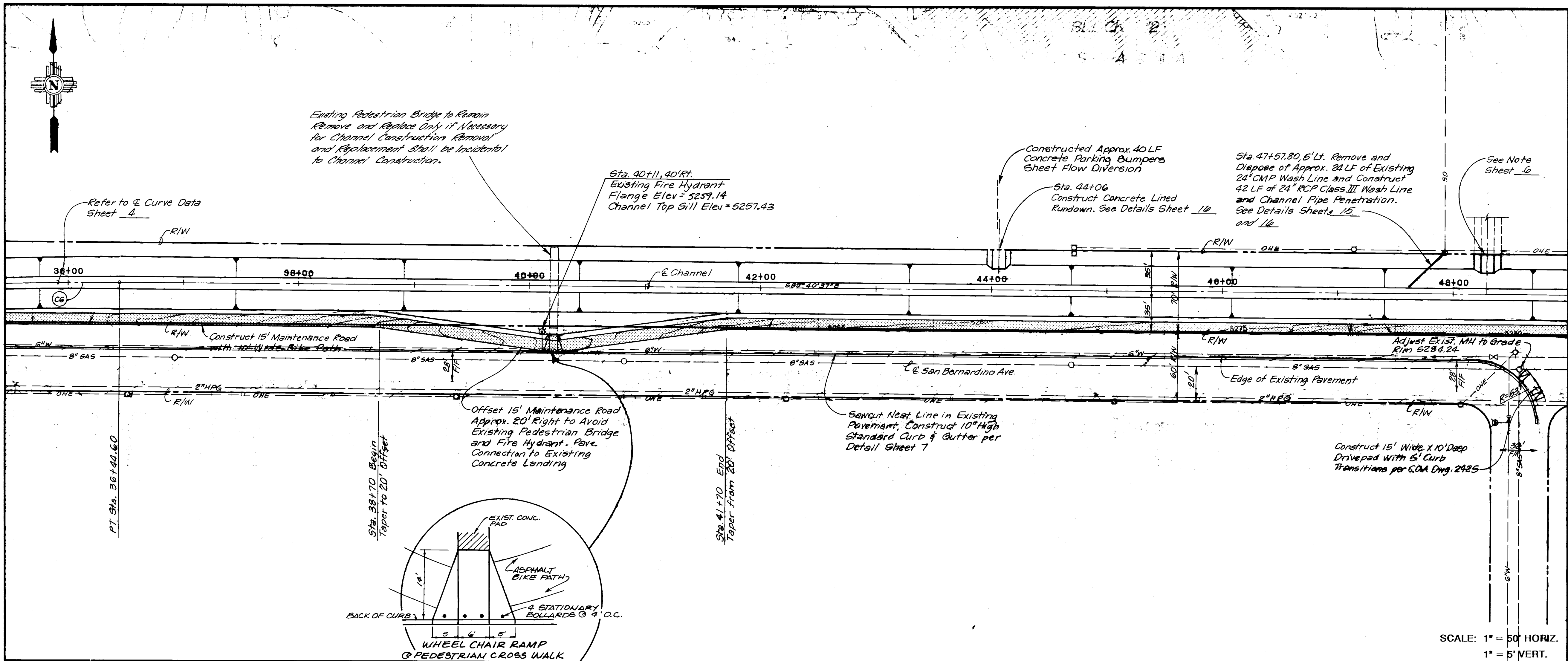
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CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

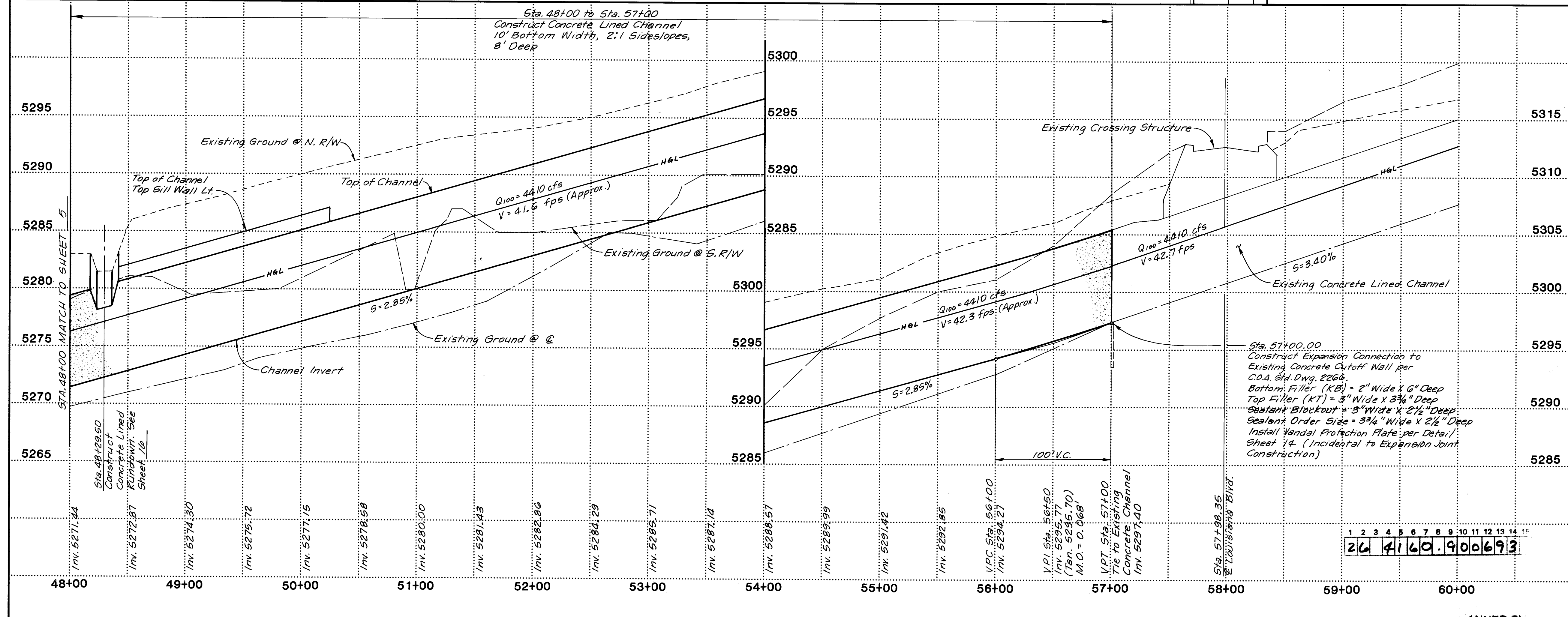
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
SAN PEDRO DRIVE PLAN & PROFILE STA. 12+00 TO STA. 16+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11-19-91	WATER	Ronald P. Bohannon	11-19-91
TRANS. DEV.	Ronald P. Bohannon	11-18-91	WASTE WATER	Ronald P. Bohannon	11-18-91
HYDROLOGY	Steve Boley	11-18-91			

PROJECT NO. 4160.90 **MAP NO.** D-18 **SHEET** 3 **OF** 33

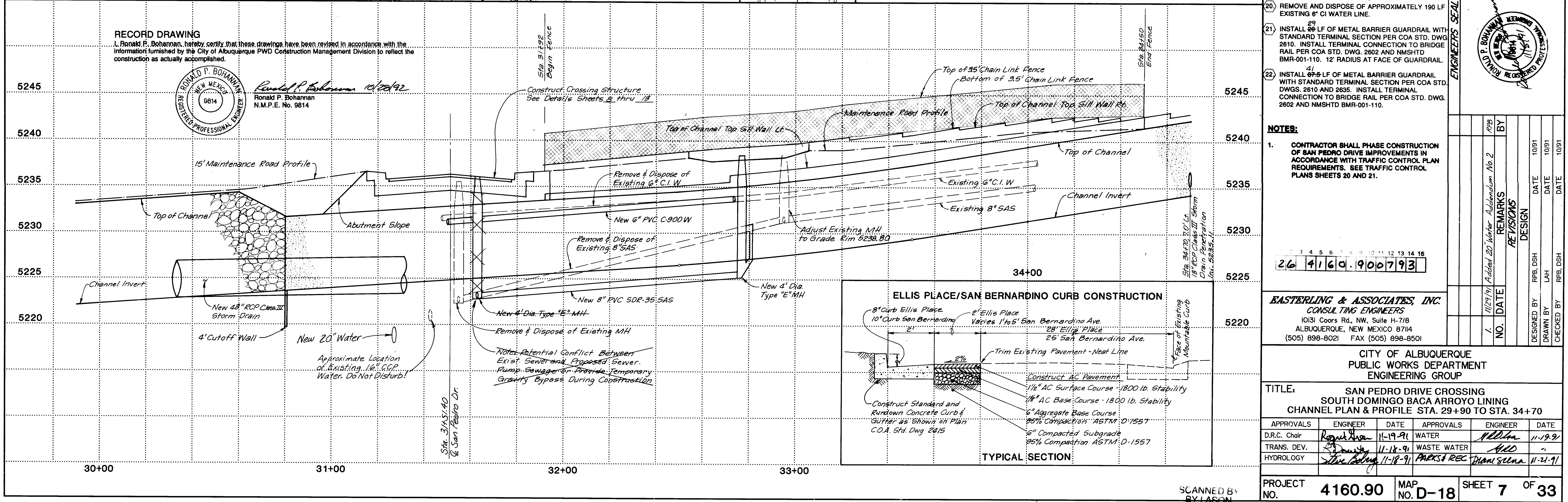
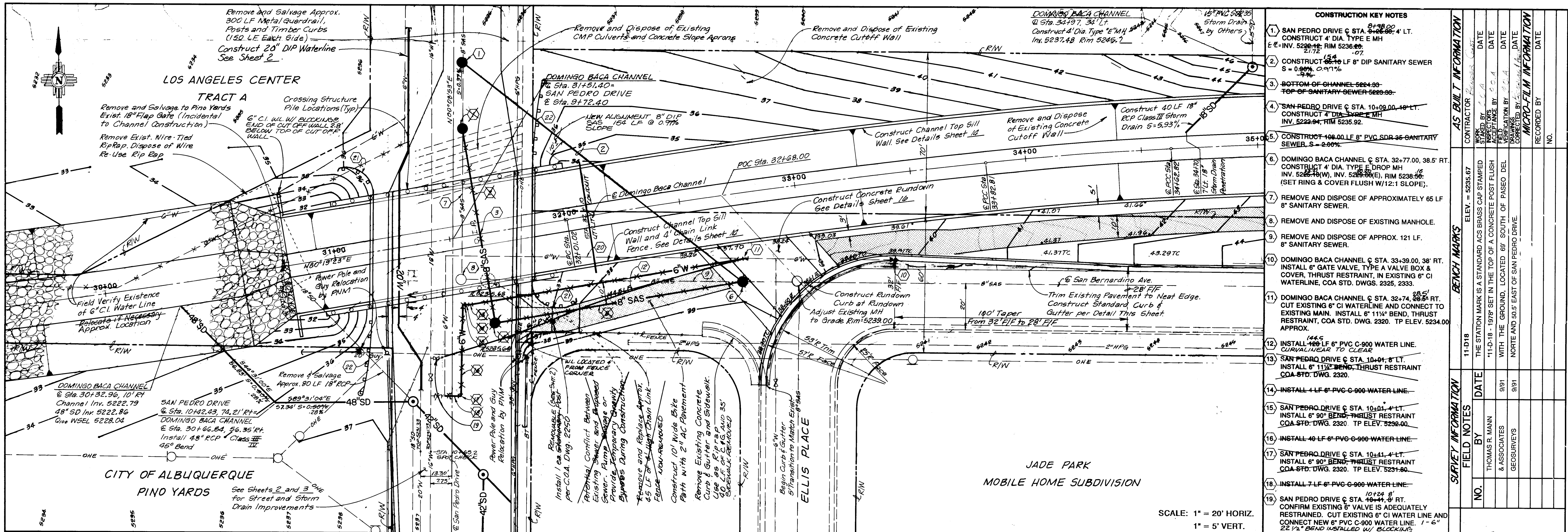




A circular professional engineer seal for Ronald P. Bohannan, a Registered Professional Engineer in New Mexico. The seal features the text "RONALD P. BOHANNAN" around the top inner edge, "REGISTERED PROFESSIONAL ENGINEER" around the bottom inner edge, "NEW MEXICO" in the center, and the number "9814" below it.

PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	6	OF	33
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AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEERS SEAL			
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1	11-17-91	THOMAS R. MANN	CONSTRUCT 4" DIA. TYPE E MH	11-D18	11-17-91	THOMAS R. MANN	CONSTRUCT 4" DIA. TYPE E MH	1	11-17-91	THOMAS R. MANN	CONSTRUCT 4" DIA. TYPE E MH	1	11-17-91	THOMAS R. MANN	CONSTRUCT 4" DIA. TYPE E MH
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8 of 33
9 of 33
10 of 33
11 of 33
12 of 33
13 of 33

- *APPLICATION IS FOR PETRO MAT, IF ALTERNATE MATERIAL IS USED FABRIC TEST SECTIONS WILL BE REQUIRED.

REINFORCED CONCRETE:
SUPERSTRUCTURE: F' C=3,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI
SUBSTRUCTURE: F' C=3,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI GRADE 60
N=9 FS=20,000. PSI GRADE 40

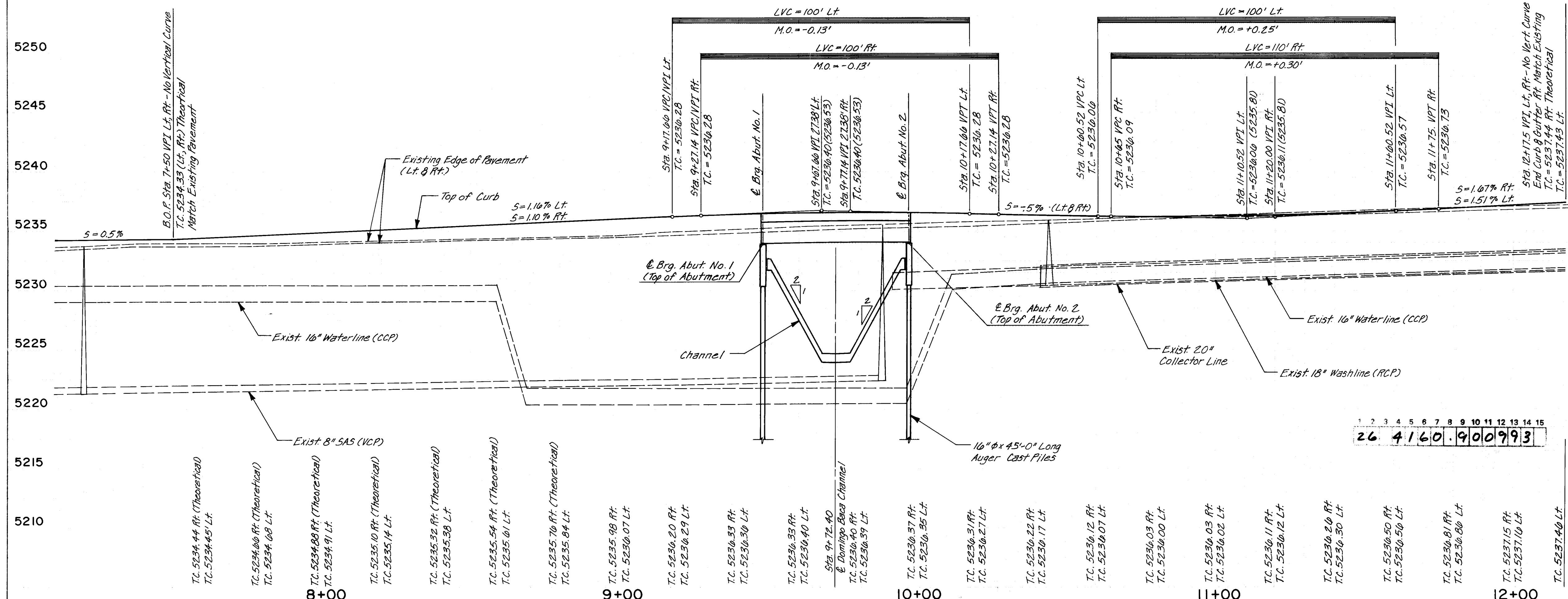
BEAMS: FCI (MIN. COMP. STRENGTH OF CONC. AT
TIME OF INITIAL PRESTRESS)=4750 PSI
F'C=5500 PSI, N=7, 1/2" DIA. HIGH TENSILE
STRENGTH 7 WIRE STRANDS.
INITIAL PRESTRESS=28910 LBS/STRAND,
F'S=41300. LBS/STRAND, F_Y=35100 LBS/STRAND

LIVE LOAD=HS-20-44

ITEMS LISTED ABOVE SHALL BE INCIDENTAL TO THE COST OF OTHER ITEMS FOR THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFORE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY STANDARD DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

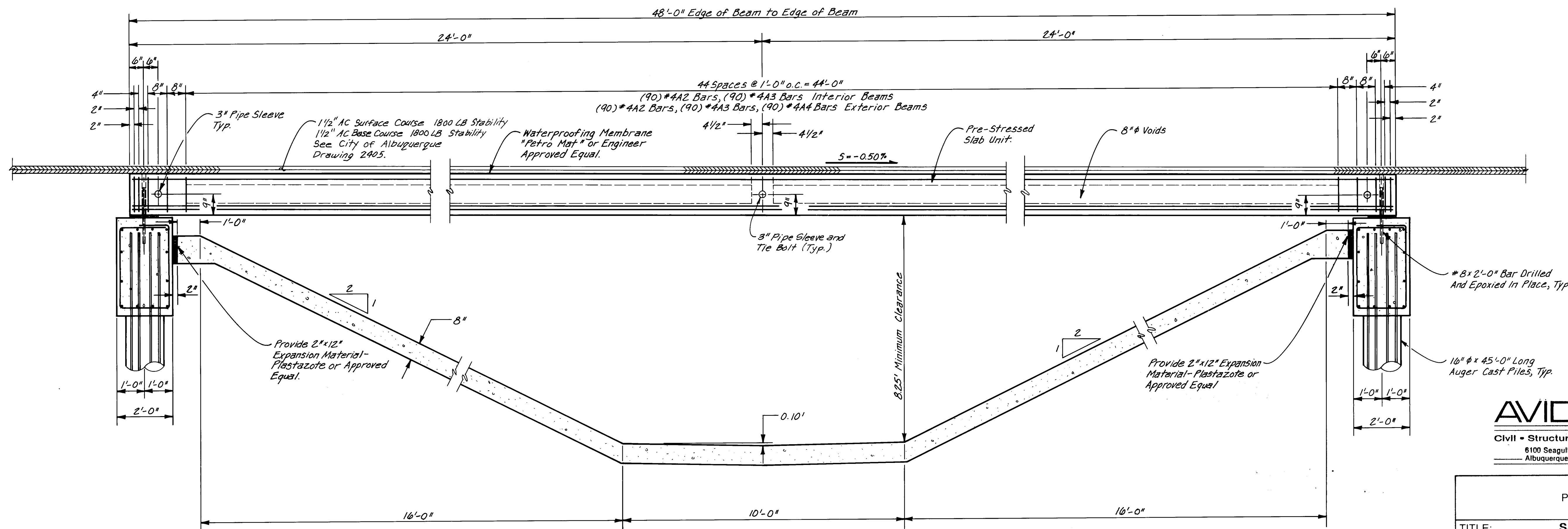
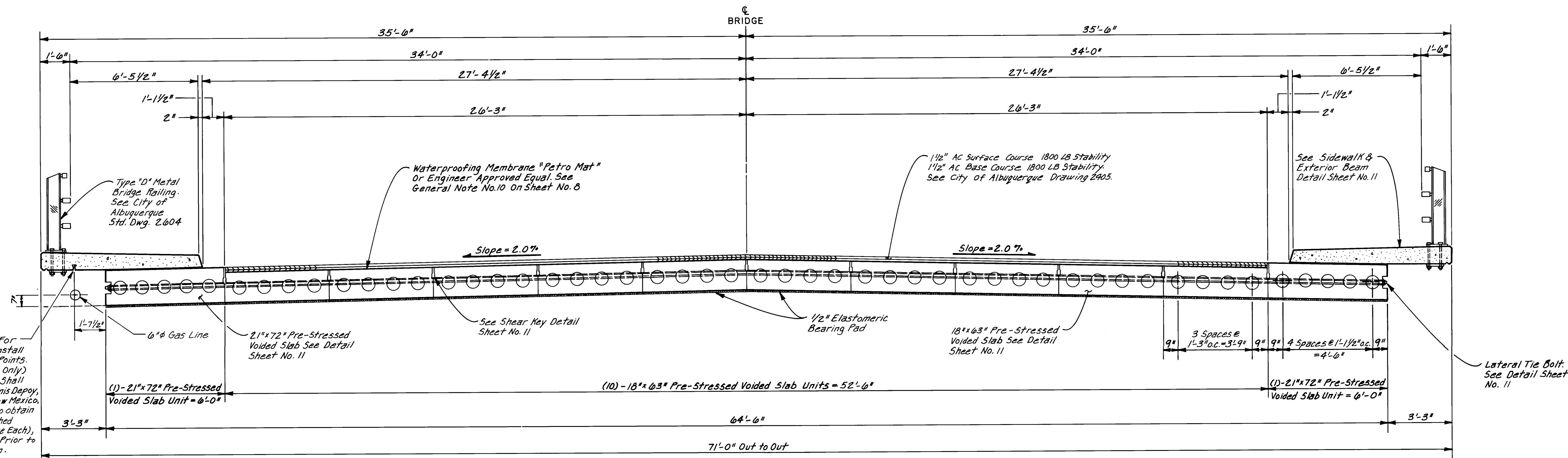
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.





ROQUE
 PARTMENT:
 ROUP
 CROSSING
 PROYO LINING
 PROFILE
 8
 SHEET 9 OF 33

5/8" Insert For Gas Line - Install Quarter Points. (West Side Only) Contractor Shall Contact Dennis Depoy, Gas Co. of New Mexico, (889-2539) to obtain GNM furnished Inserts (Three Each), Three Weeks Prior to Construction.



RECORD DRAWING
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Ronald P. Bohannon 11/29/91
Ronald P. Bohannon
N.M.P.E. No. 9814

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull Street NE • Suite 102
Albuquerque, NM 87109 • (505) 881-5357

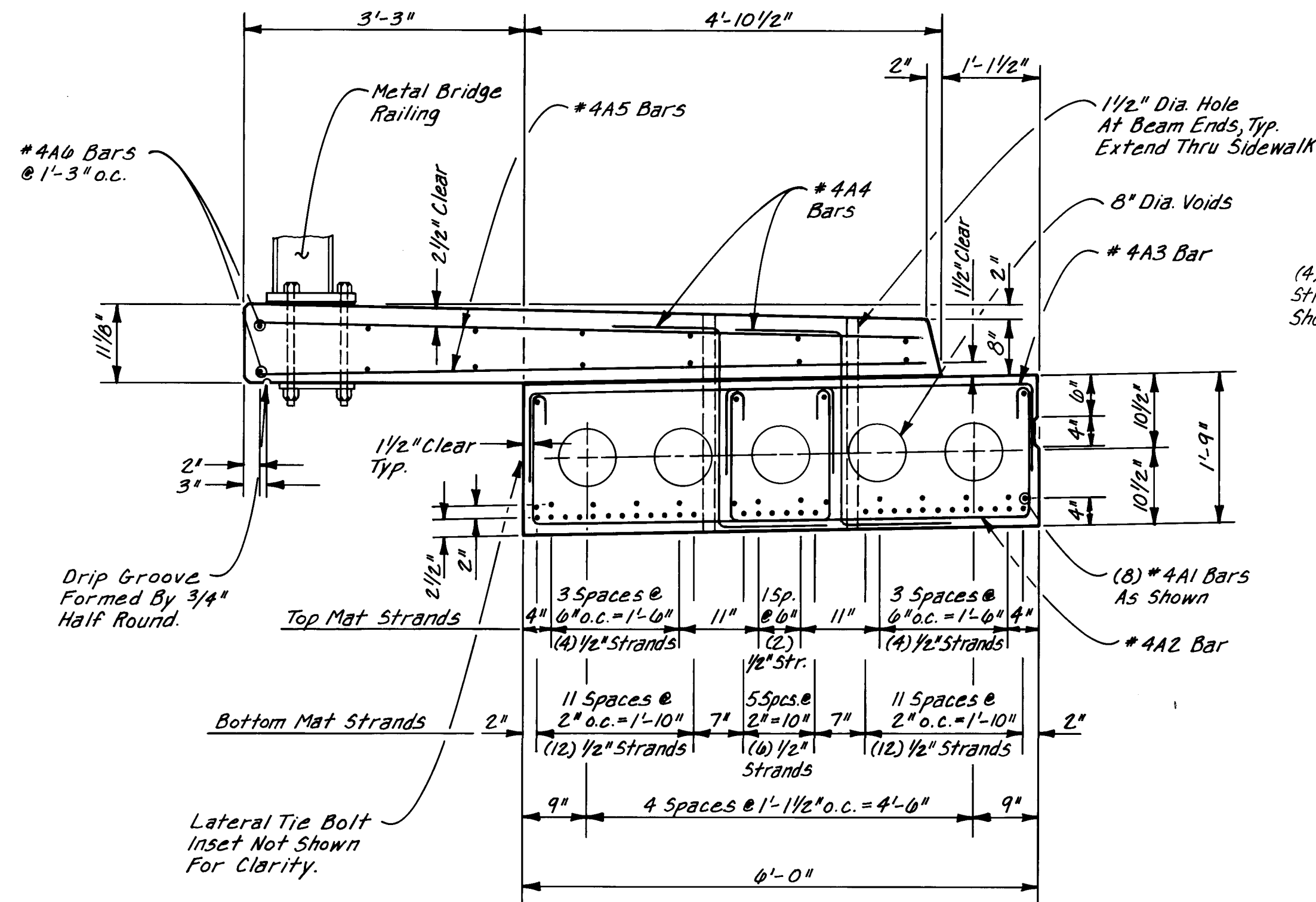
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
BRIDGE TRANSVERSE & LONGITUDINAL SECTIONS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	R. Bohannon	11-19-91			
Trans. Dev	R. Bohannon	11-19-91			
Utility Dev	R. Bohannon	11-19-91			
HYDROLOGY	Steve Bohannon	11-19-91			
DRAWING NO.	4160.90		MAP NO.	D-18	
			SHEET	10	OF 33

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Bohannon	ELEV. = 5235.67	11-D18	FIELD NOTES	NO.		
WORK ORDER NO.	1001	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED	11-D18	DATE	DATE		
DATE	11-19-91	"11-D-18" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 68' SOUTH OF PASEO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.	11-D18	BY	DATE		
DATE	11-19-91		11-D18	THOMAS R. MANN & ASSOCIATES	9/91		
DATE	11-19-91		11-D18	GEOSURVEYS	9/91		
DATE	11-19-91		11-D18				
DATE	11-19-91		11-D18				
DATE	11-19-91		11-D18				

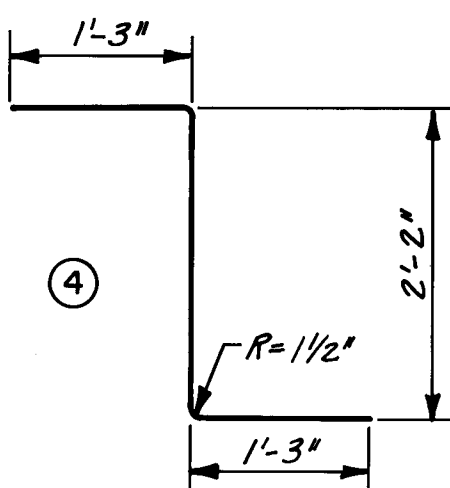
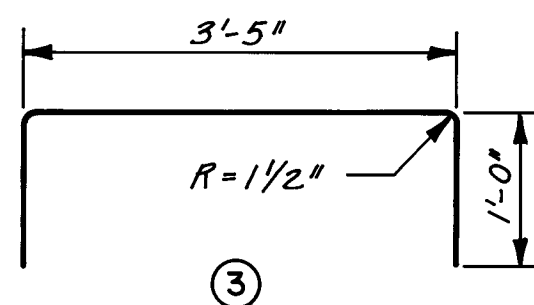
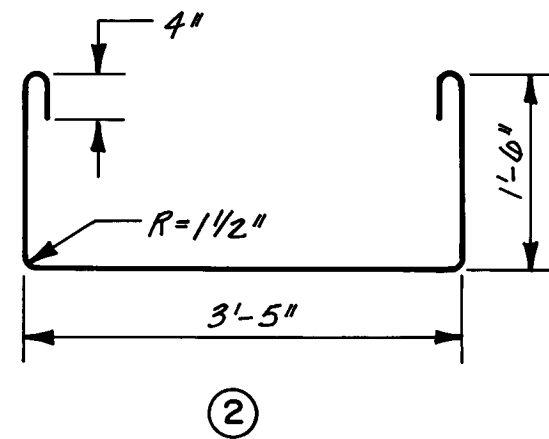
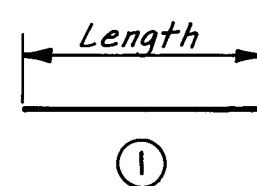
REVISIONS		DESIGN		BY		DATE	
NO.	DATE	REMARKS	DESIGN	BY	DATE	DATE	DATE
1	11-19-91	DESIGN	DLW	DLW	7/90	7/90	7/90
2			RL	RL	7/90	7/90	7/90
3			DLW	DLW	7/90	7/90	7/90



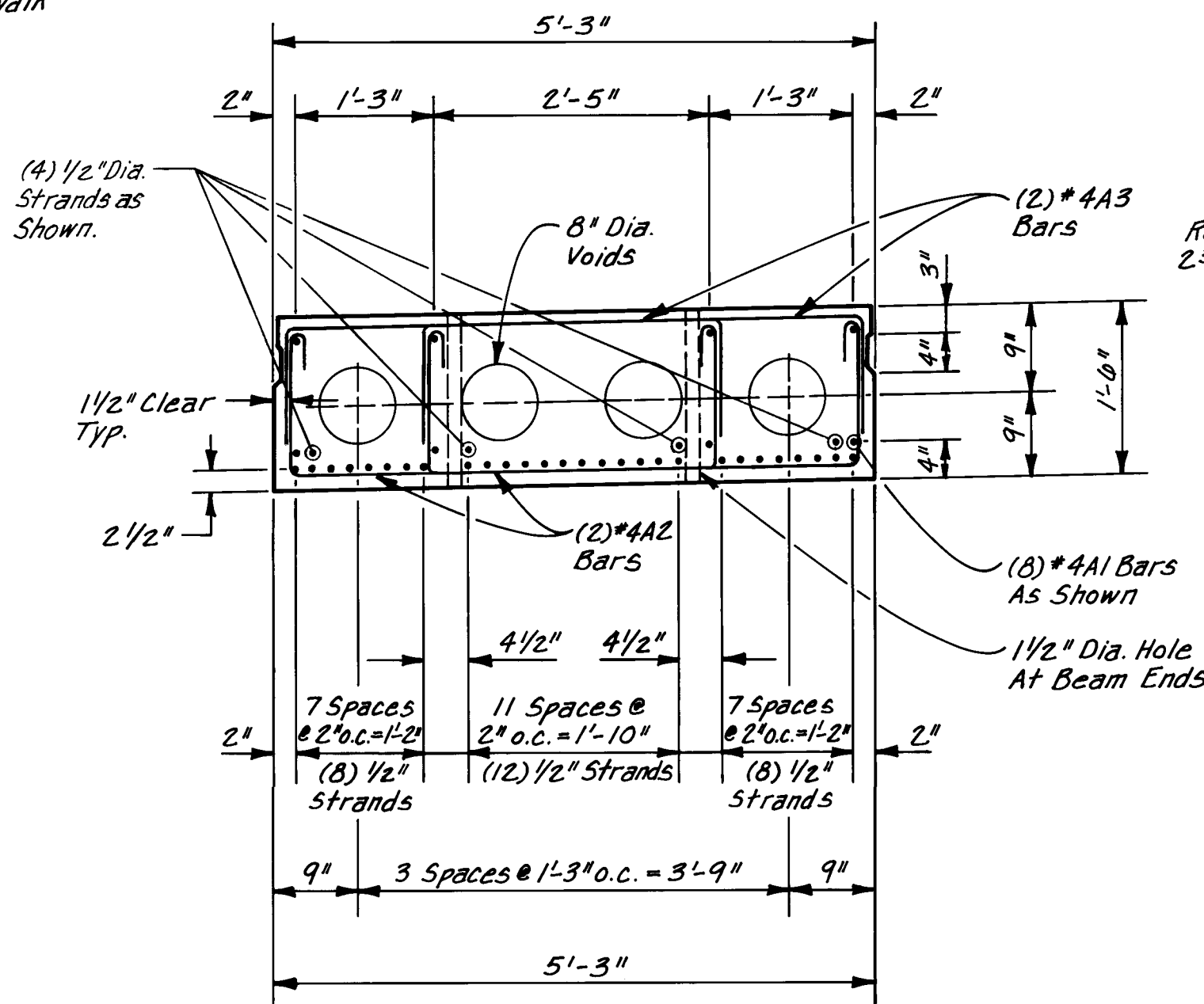
SIDEWALK & EXTERIOR BEAM DETAIL

EXTERIOR BEAM (2) REQUIRED

BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	1	4	47'-9"	8
#4A2	2	4	7'-1"	106
#4A3	3	4	5'-5"	106
#4A4	4	4	4'-8"	106
#4A5	1	4	7'-9"	106
#4A6	1	4	47'-9"	14



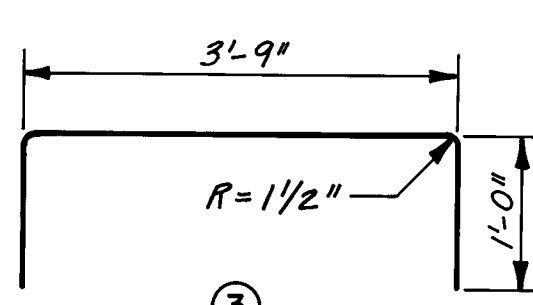
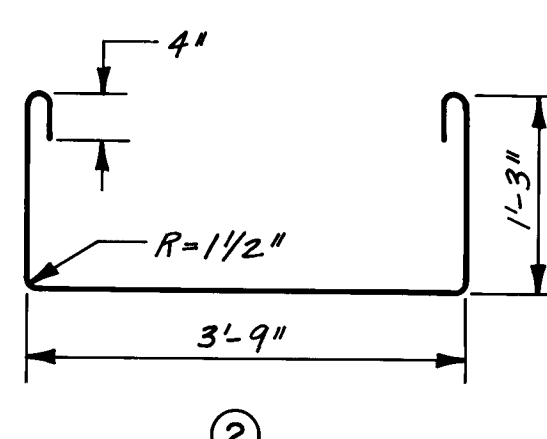
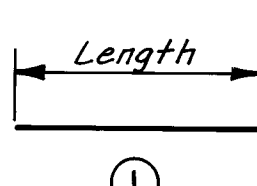
BAR BENDING DIAGRAM (EXTERIOR BEAMS)



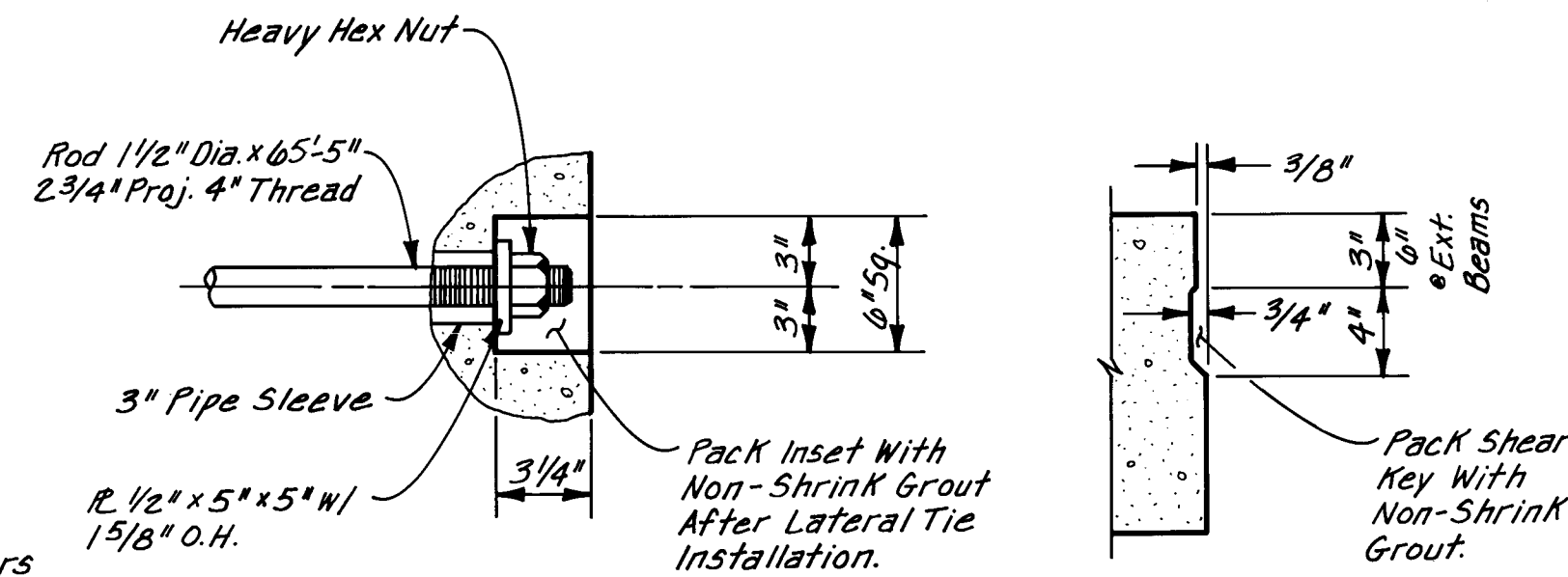
INTERIOR BEAM DETAIL

INTERIOR BEAM (10) REQUIRED

BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	1	4	47'-9"	8
#4A2	2	4	6'-11"	106
#4A3	3	4	5'-9"	106

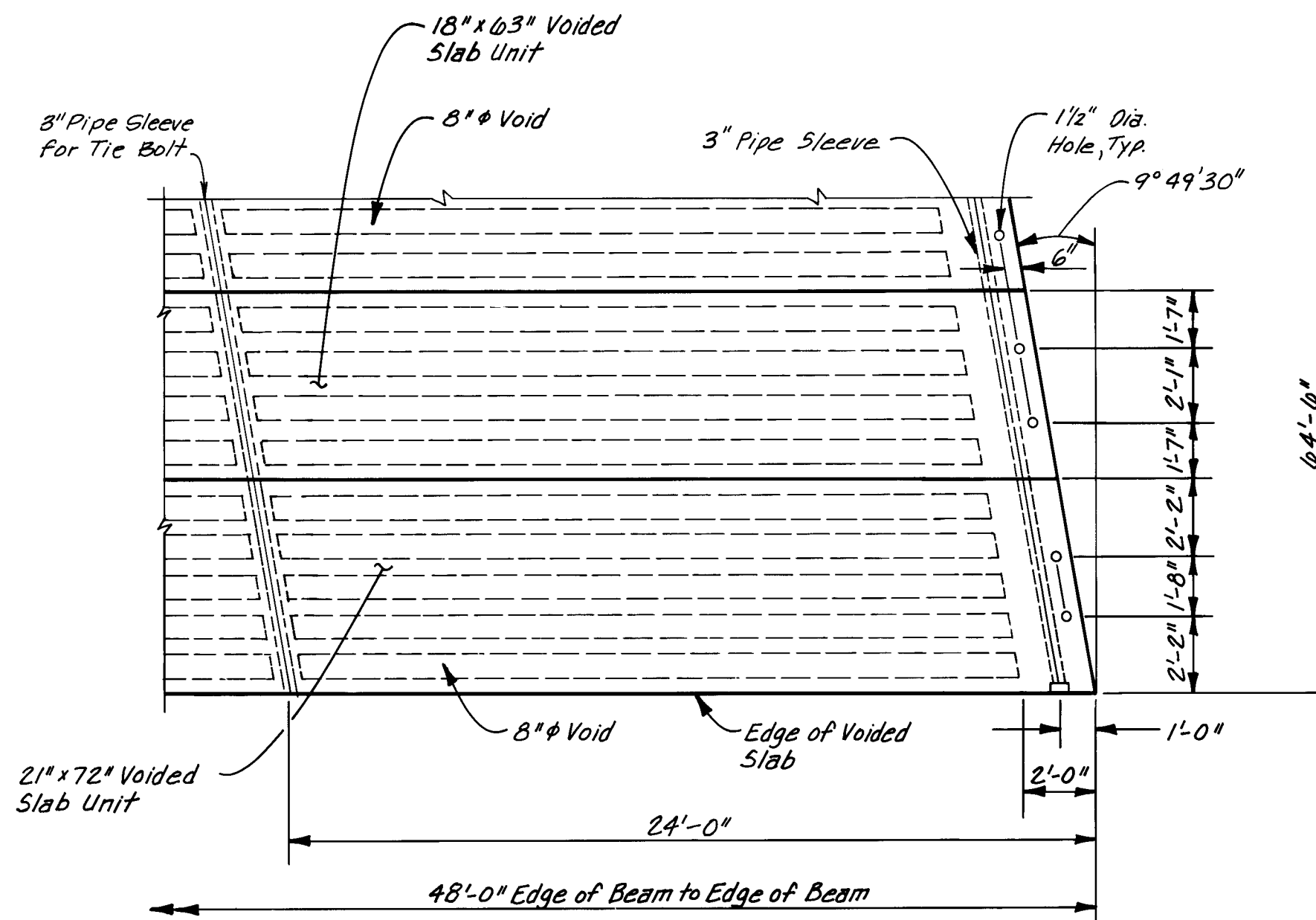


BAR BENDING DIAGRAM (INTERIOR BEAMS)



LATERAL TIE AND INSET

SHEAR KEY DETAIL



PARTIAL PLAN

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull Street NE • Suite 102
Albuquerque, NM 87109 • (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
BRIDGE VOIDED SLAB BEAM DETAILS**

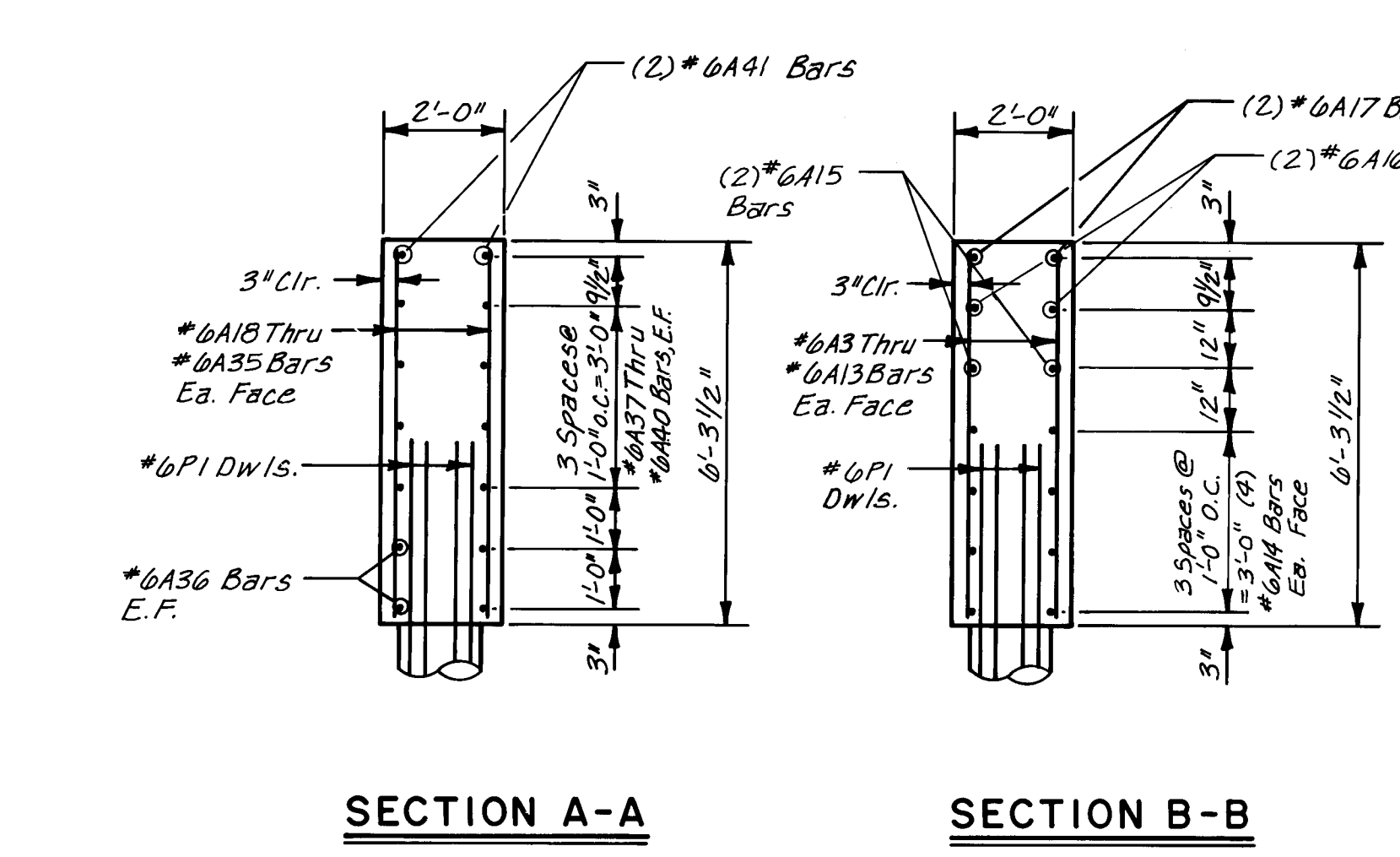
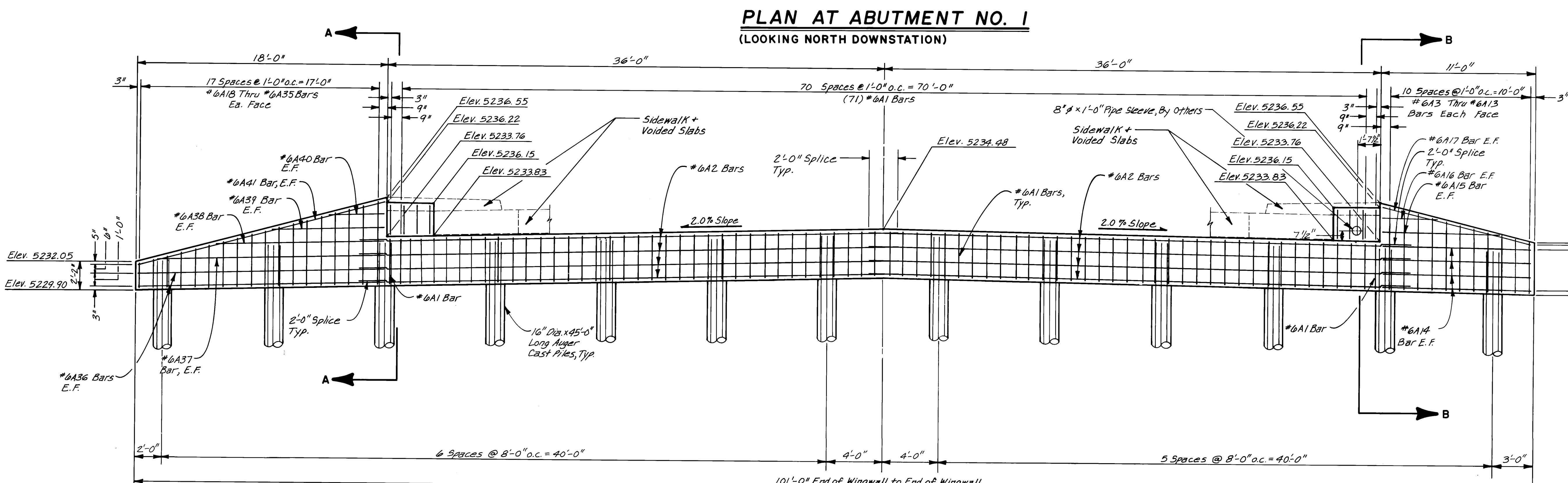
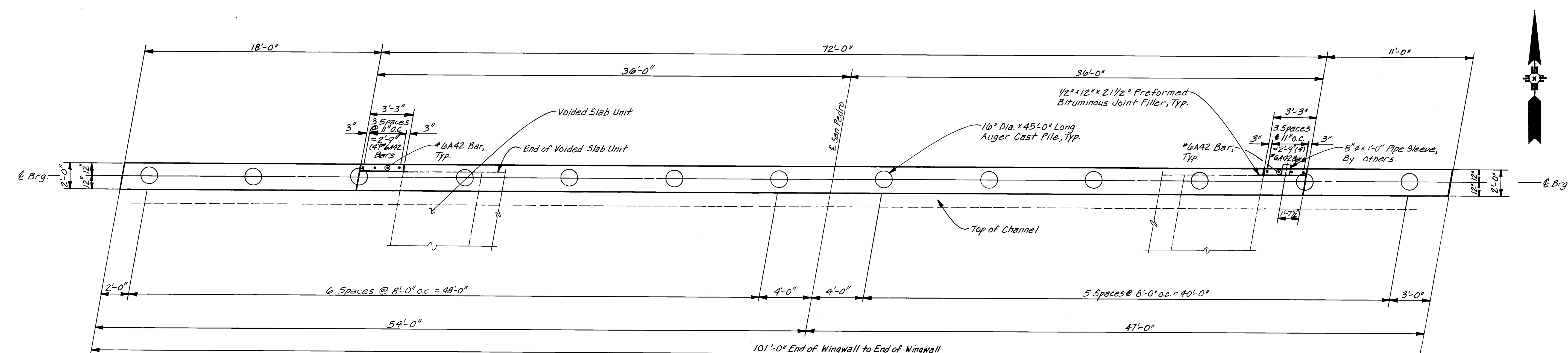
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11-19-91			
Trans. Dev	Ronald P. Bohannon	11-19-91			
Utility Dev	Ronald P. Bohannon	11-19-91			
HYDROLOGY	Steve Boring	11-18-91			
DRAWING NO.	4160.90	MAP NO.	D-18	SHEET	11 OF 33

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 11/18/91
Ronald P. Bohannon
N.M.P.E. No. 9814

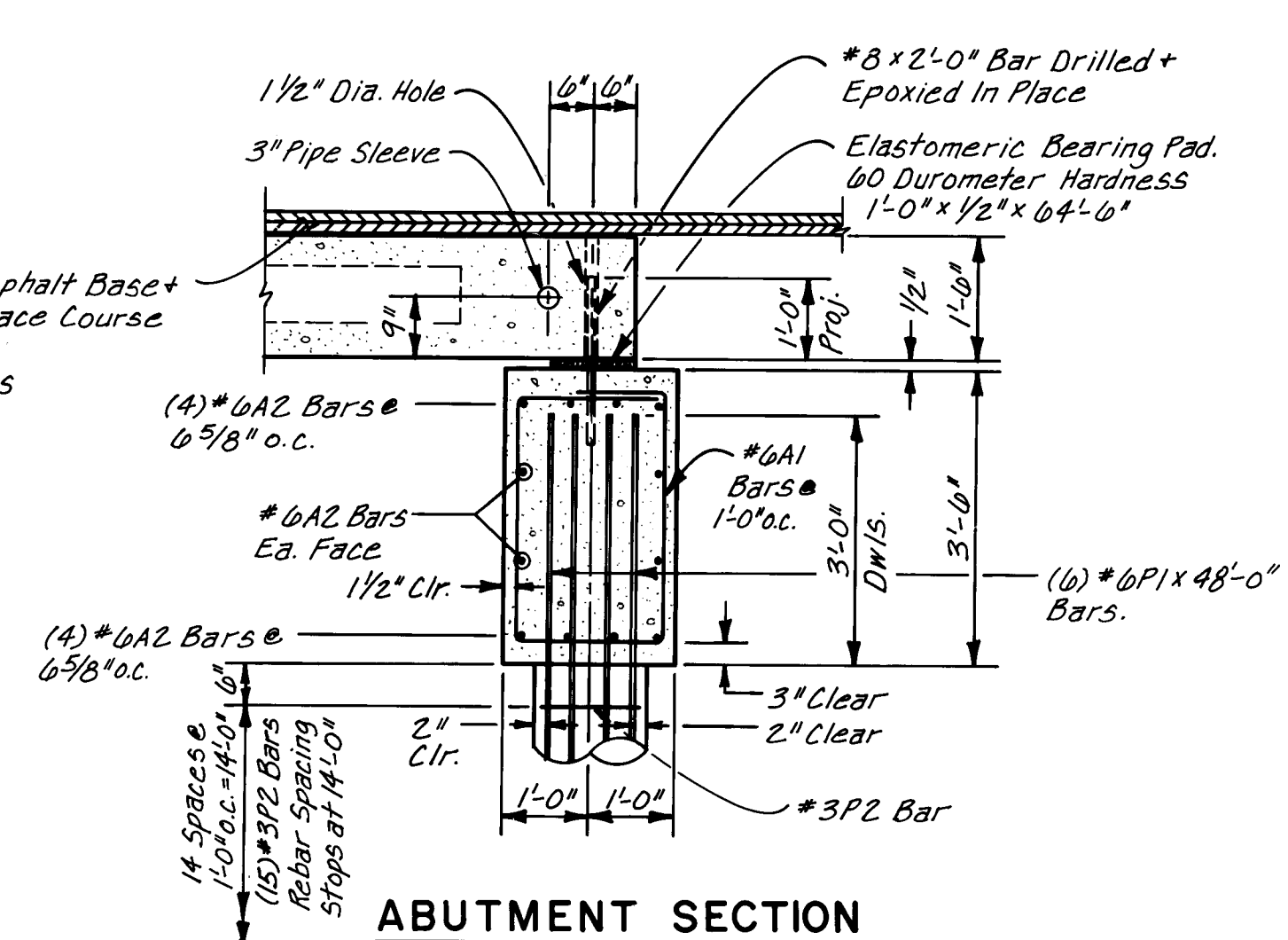
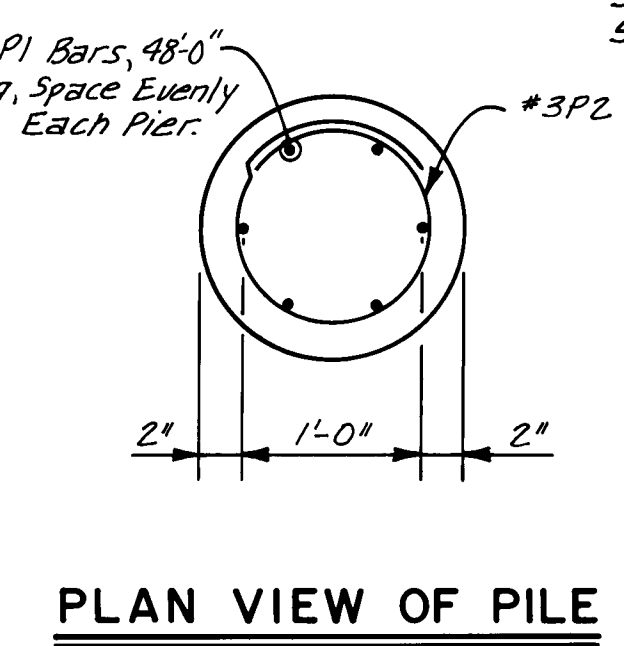


ELEVATION AT ABUTMENT NO. 1
(LOOKING NORTH DOWNSTATION)

Note: #6P1 Bars Shall Be 48'-0" Long. The Bottom Ends of These Bars May Be Tied Together To Facilitate Insertion Into The Pile Concrete.

RECORD DRAWING
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Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 9814

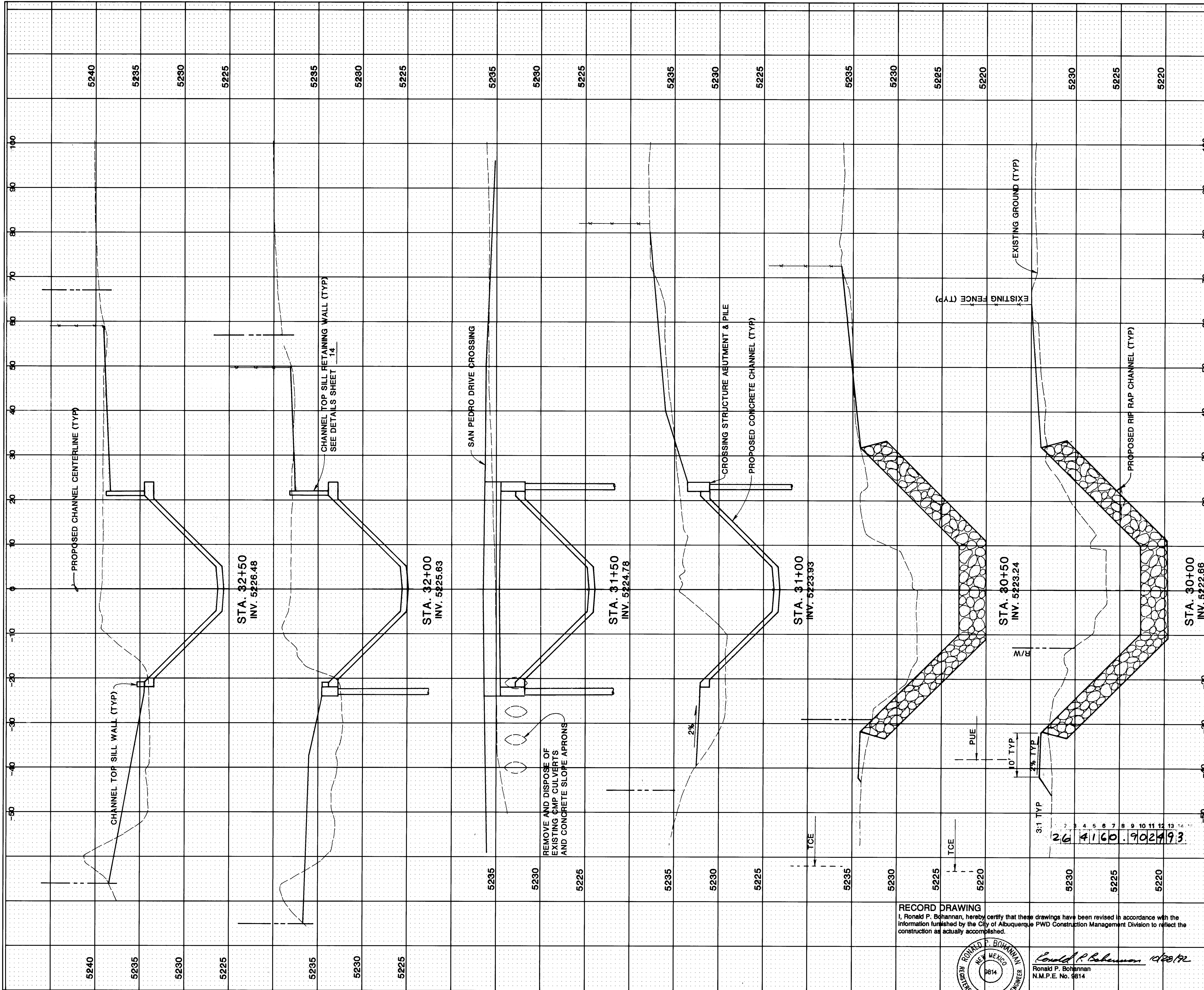


AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull Street, NE • Suite 102
Albuquerque, NM 87109 • (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING ABUT. NO. 1 BRIDGE AND WINGWALL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	11-19-91			
Trans. Dev.	<i>[Signature]</i>	11-18-91			
Utility Dev.	<i>[Signature]</i>	11-17-91			
DRAWING NO.	4160.90	MAP NO.	D-18	SHEET	12 OF 33

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
11-D18	ELEV. = 5235.67	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED	DATE	NO.	BY	THOMAS R. MANN & ASSOCIATES	9/91
CONTRACTOR: <i>[Signature]</i>	INSPECTOR'S: <i>[Signature]</i>	FIELD CHANGE BY: <i>[Signature]</i>	DATE	NO.	BY	THOMAS R. MANN & ASSOCIATES	9/91
NO.	NO.	NO.	NO.	NO.	BY	THOMAS R. MANN & ASSOCIATES	9/91

REVISIONS		DESIGN		DATE	
NO.	DATE	DESIGNED BY	DATE	DRAWN BY	DATE
1	11-19-91	DLW		DLW	
2	11-18-91	DLW		DLW	
3	11-17-91	DLW		DLW	
4	11-16-91	DLW		DLW	
5	11-15-91	DLW		DLW	
6	11-14-91	DLW		DLW	
7	11-13-91	DLW		DLW	
8	11-12-91	DLW		DLW	
9	11-11-91	DLW		DLW	
10	11-10-91	DLW		DLW	
11	11-9-91	DLW		DLW	
12	11-8-91	DLW		DLW	
13	11-7-91	DLW		DLW	
14	11-6-91	DLW		DLW	
15	11-5-91	DLW		DLW	



RECORD DRAWING
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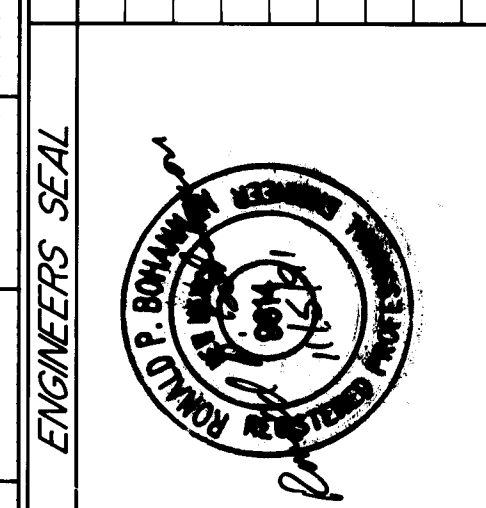
PROFESSIONAL SEAL
RONALD P. BOHANNAN
NEW MEXICO
P814
REGISTERED PROFESSIONAL ENGINEER

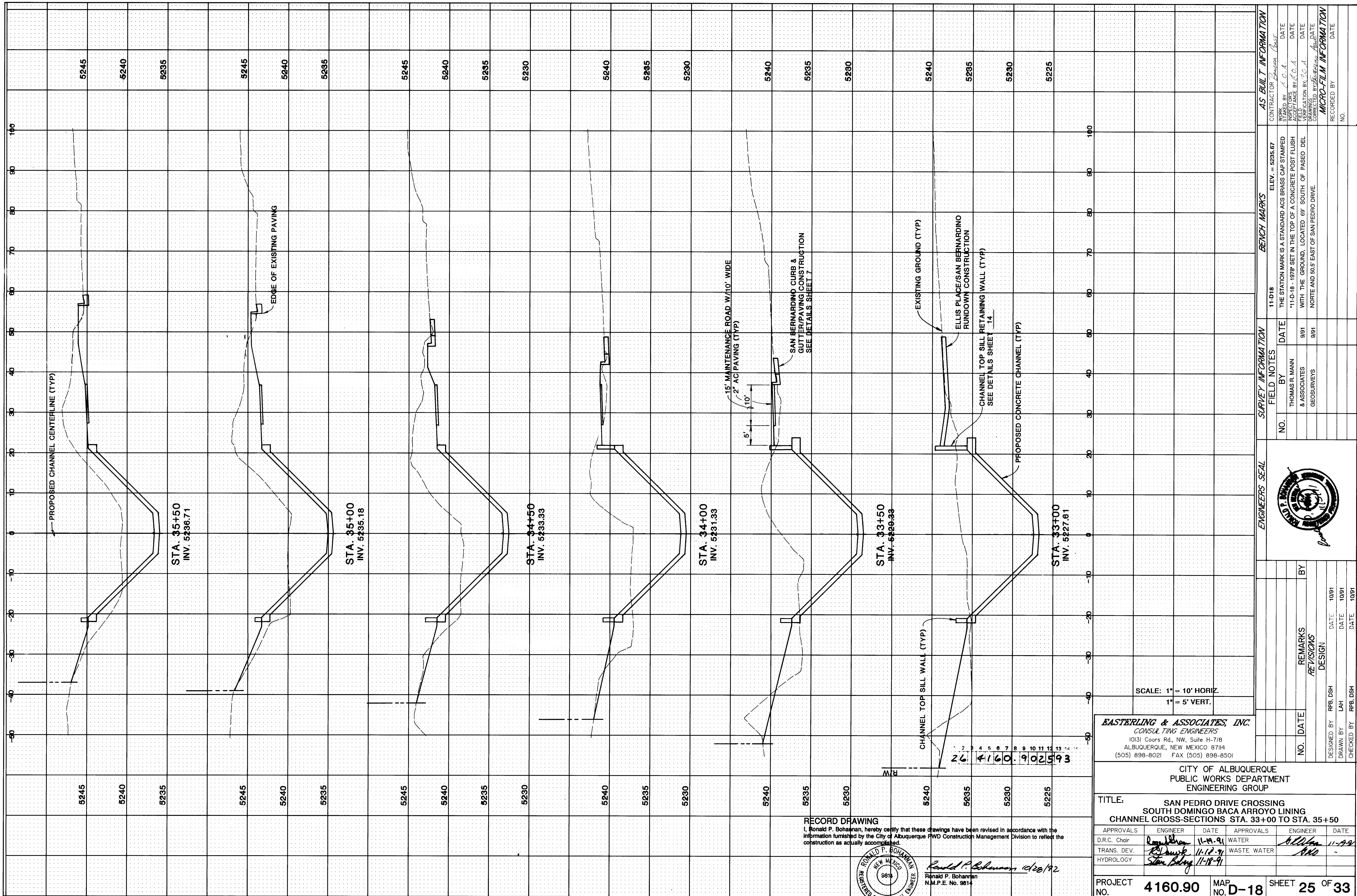
Ronald P. Bohannon 11/28/91
Ronald P. Bohannon
N.M.P.E. No. 8814

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING CHANNEL CROSS-SECTIONS STA. 30+00 TO STA. 32+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannon</i>	11-19-91	WATER	<i>M. P. Bohannon</i>	11-19-91
TRANS. DEV.	<i>R. Bohannon</i>	11-18-91	WASTE WATER	<i>M. P. Bohannon</i>	11-18-91
HYDROLOGY	<i>Stan Poling</i>	11-18-91			
PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	24 OF 33

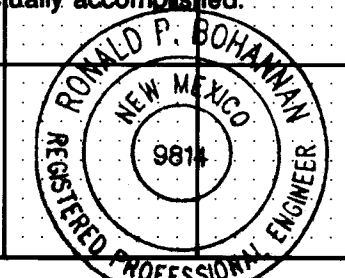
SURVEY INFORMATION				BENCH MARKS		AS BUILT INFORMATION			
NO.	FIELD NOTES			11-D18	ELEV. = 5235.67	CONTRACTOR <i>BECKER CORP</i>			
	BY	DATE	THOMAS R. MANN & ASSOCIATES GEOSURVEYS	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED "11-D-18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 68' SOUTH OF PASO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.					
				INSPECTOR'S FIELD VERIFICATION BY <i>C.C.A.</i>					
				DRAWING VERIFICATION BY <i>C.C.A.</i>					
REVISIONS				DESIGN					
NO.				DATE					
DESIGNED BY				DRAWN BY					
CHECKED BY				RECORDED BY					
				NO.					
				</					





RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque RWD Construction Management Division to reflect the construction as actually accomplished.

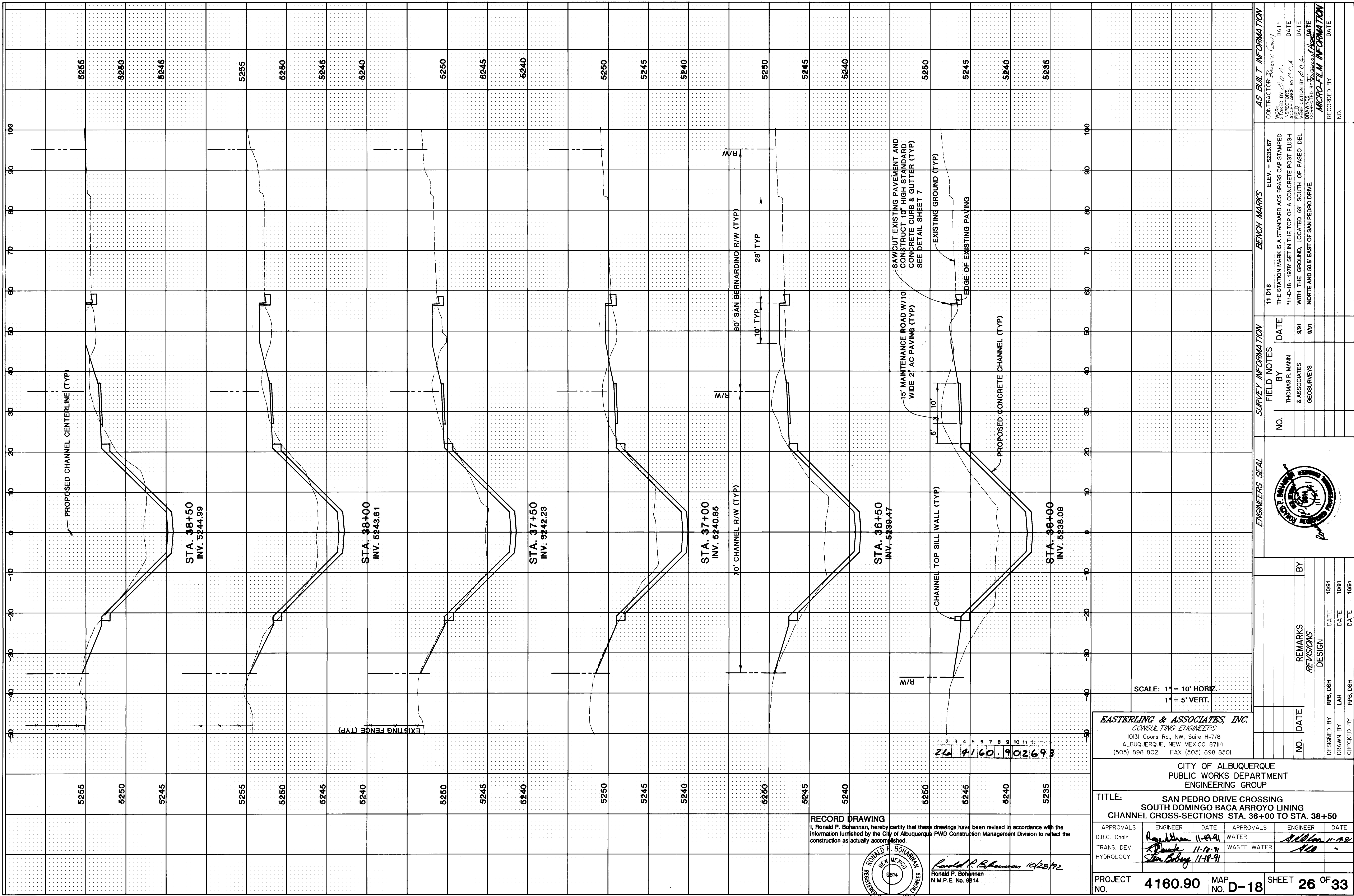
Ronald P. Bohannon 11/18/91
Ronald P. Bohannon
N.M.P.E. No. 9814



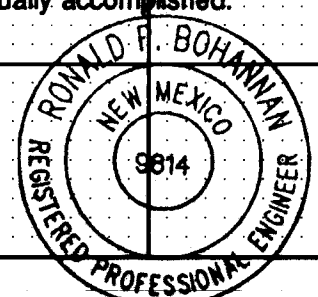
EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING CHANNEL CROSS-SECTIONS STA. 33+00 TO STA. 35+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannon</i>	11-18-91	WATER	<i>R. Bohannon</i>	11-18-91
TRANS. DEV.	<i>R. Bohannon</i>	11-18-91	WASTE WATER	<i>R. Bohannon</i>	11-18-91
HYDROLOGY	<i>Steve Balog</i>	11-18-91			
PROJECT NO. 4160.90		MAP NO. D-18		SHEET 25 OF 33	

ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
NO.			FIELD NOTES			11-D18			CONTRACTOR		
BY			DATE			ELEV. = 5235.67			INSPECTED BY		
THOMAS R. MANN			9/91			THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED			DATE		
& ASSOCIATES			GEO SURVEYS			WITH THE GROUND, LOCATED 68' SOUTH OF PASSED DEL			DATE		
DESIGN			9/91			NORTE AND 50.5' EAST OF SAN PEDRO DRIVE			DATE		
REVISIONS			DATE			NO.			RECORDED BY		
DESIGNED BY			DATE			NO.			DATE		
DRAWN BY			DATE			NO.			DATE		
CHECKED BY			DATE			NO.			DATE		



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/25/92
Ronald P. Bohannon
N.M.P.E. No. 9814

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
1031 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

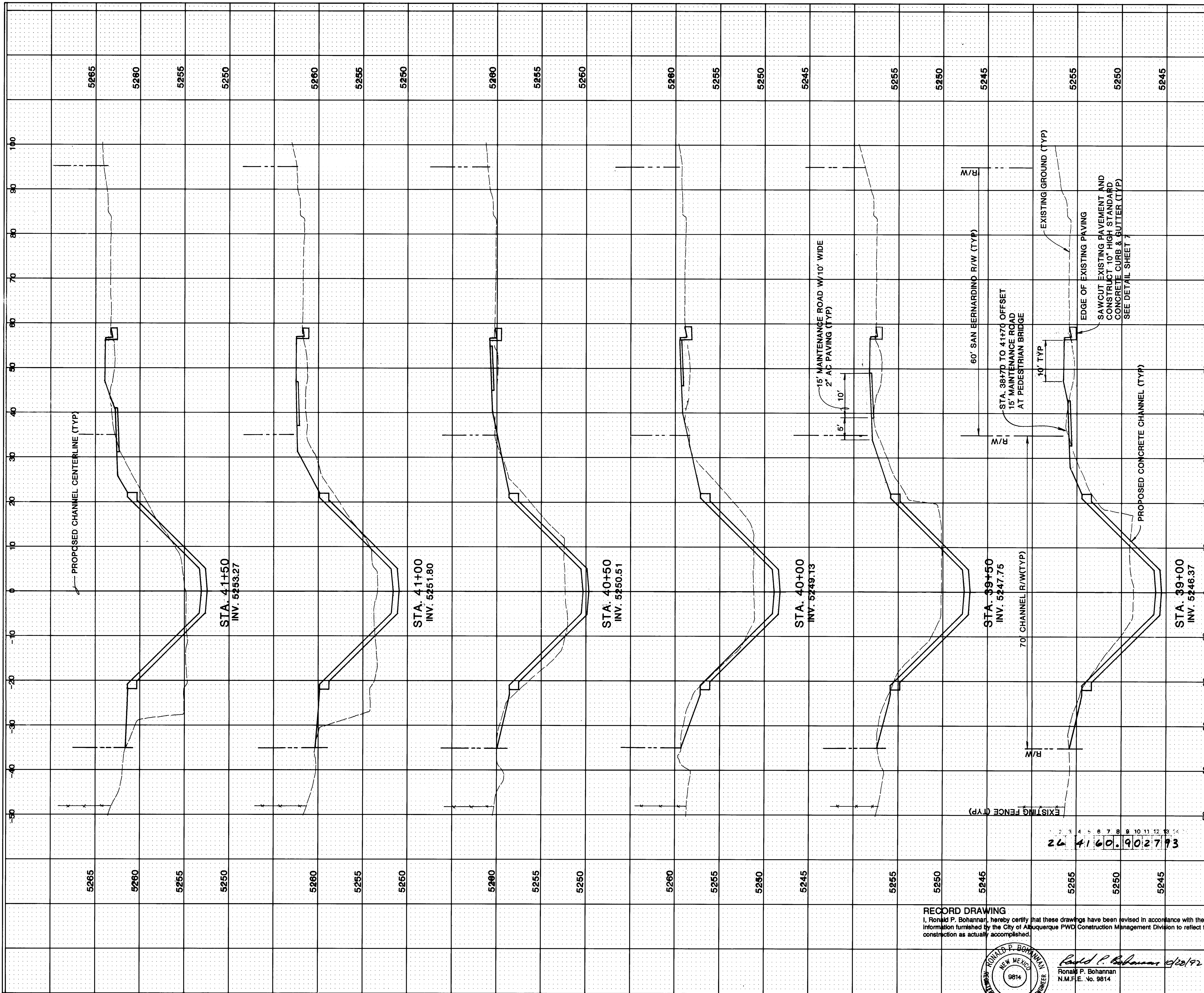
TITLE: **SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
CHANNEL CROSS-SECTIONS STA. 36+00 TO STA. 38+50**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannon</i>	11-19-91	WATER	<i>A. Bohannon</i>	11-19-91
TRANS. DEV.	<i>R. Bohannon</i>	11-19-91	WASTE WATER	<i>AK</i>	
HYDROLOGY	<i>Steve Bohannon</i>	11-18-91			

PROJECT NO. **4160.90** MAP NO. **D-18** SHEET **26** OF **33**

ENGINEERS SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
			NO.	BY	DATE	11-D18	ELEV. = 5235.67	CONTRACTOR <i>Bohannon</i>
				THOMAS R. MANN				WORK STARTED BY <i>C.O.A.</i>
				& ASSOCIATES	9/91			INSPECTOR'S FIELD VERIFICATION BY <i>C.O.A.</i>
				GEOSURVEYS	9/91			FIELD VERIFICATION BY <i>C.O.A.</i>
								CORRECTED BY <i>Bohannon</i>
			REVISIONS			MICRO-FILM INFORMATION		
			NO.	DATE	BY	RECORDED BY		
				10/91		NO.		
				10/91				
				10/91				

BY LASON



EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS 10131 Coors Rd., NW, Suite H-7/8 ALBUQUERQUE, NEW MEXICO 87114 (505) 898-8021 FAX (505) 898-8501			CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING CHANNEL CROSS-SECTIONS STA. 39+00 TO STA. 41+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannan</i>	11-18-91	WATER	<i>R. Bohannan</i>	11-18-91
TRANS. DEV.	<i>R. Bohannan</i>	11-18-91	WASTE WATER	<i>R. Bohannan</i>	11-18-91
HYDROLOGY	<i>R. Bohannan</i>	11-18-91			
PROJECT NO. 4160.90		MAP NO. D-18	SHEET 27 OF 33		

RECORD DRAWING	
I, Ronald P. Bohannan, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.	
<i>Ronald P. Bohannan</i> 11/20/92 Ronald P. Bohannan N.M.F.E. No. 9814	

DESIGNED BY RPB, DSH		DATE 10/91
DRAWN BY LAH		DATE 10/91
CHECKED BY RPB, DSH		DATE 10/91

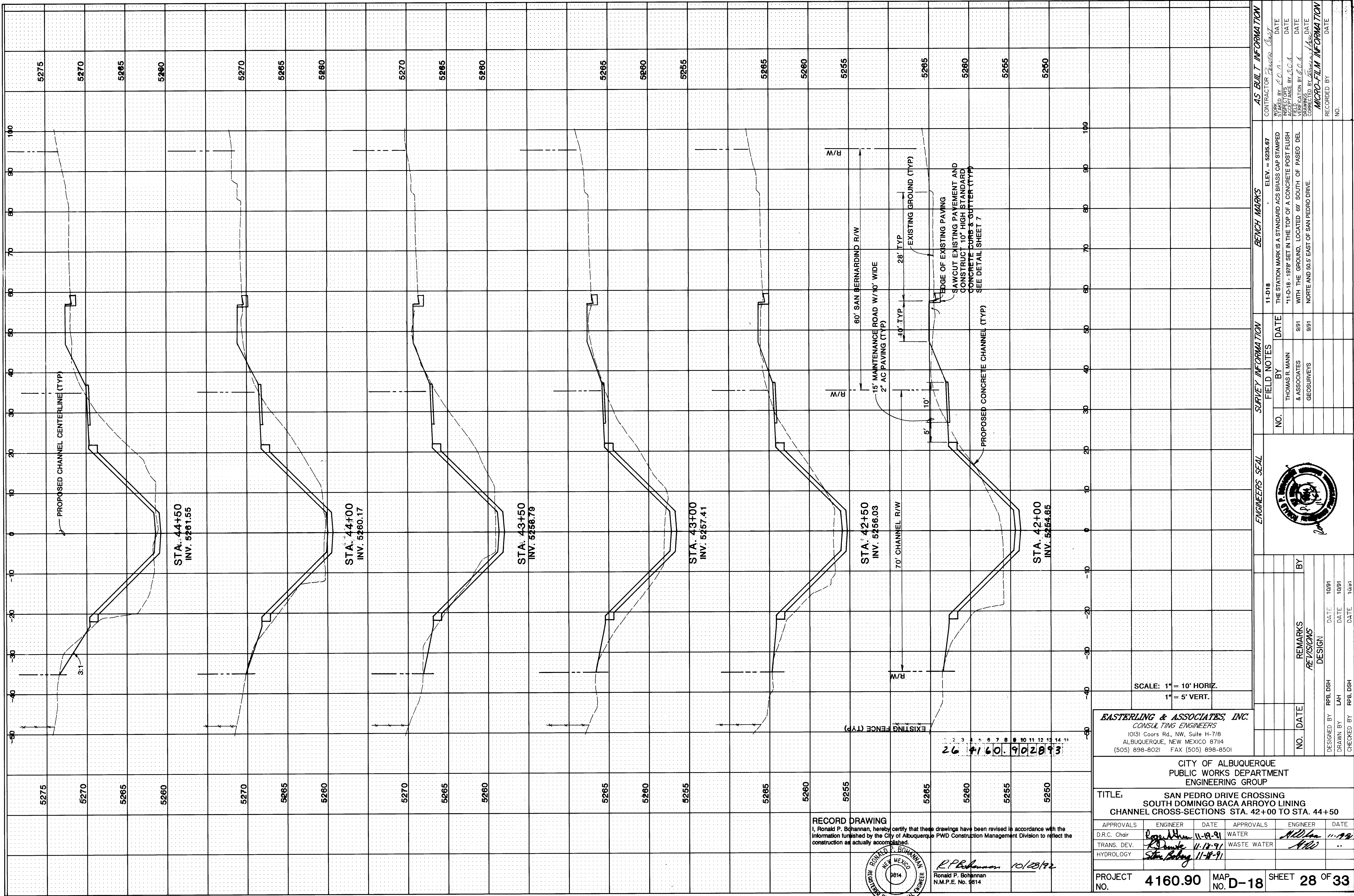
NO. DATE REMARKS REVISIONS	
BY	DESIGN

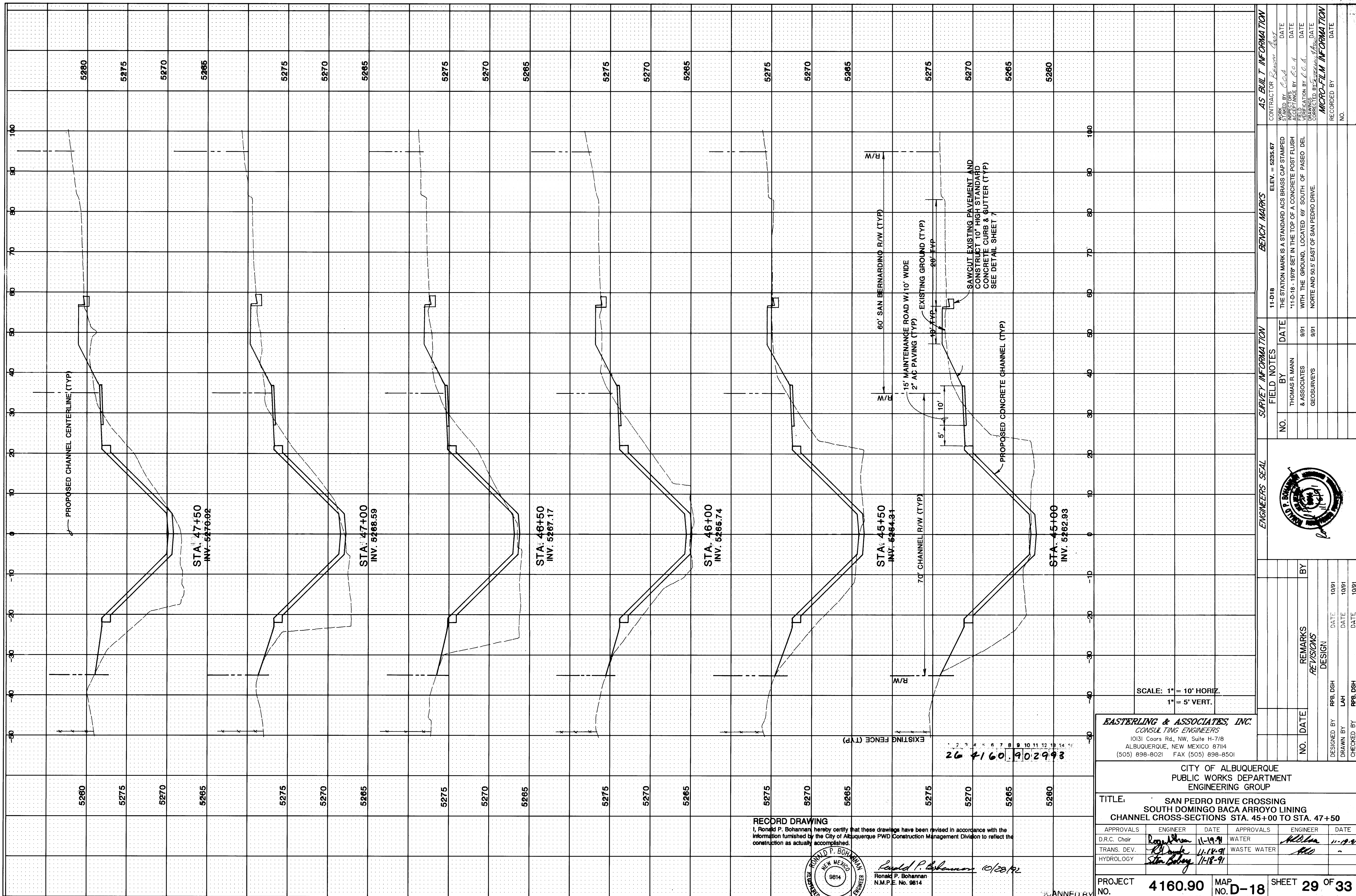
ENGINEERS SEAL	

SURVEY INFORMATION	
FIELD NOTES	DATE
THOMAS R. MANN & ASSOCIATES	9/91
GEOSURVEYS	9/91

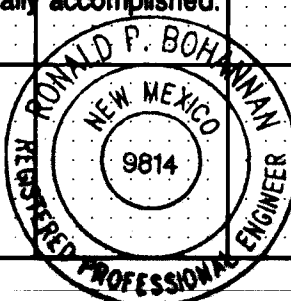
BENCH MARKS	
11-D18	ELEV. = 5235.67
THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED WITH THE GROUND, LOCATED 68' SOUTH OF PASO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.	

AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTORS	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DOWNLOADED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	





RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 9814

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-7/B
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

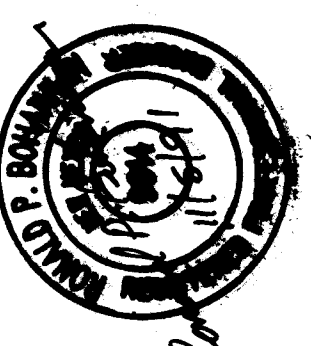
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

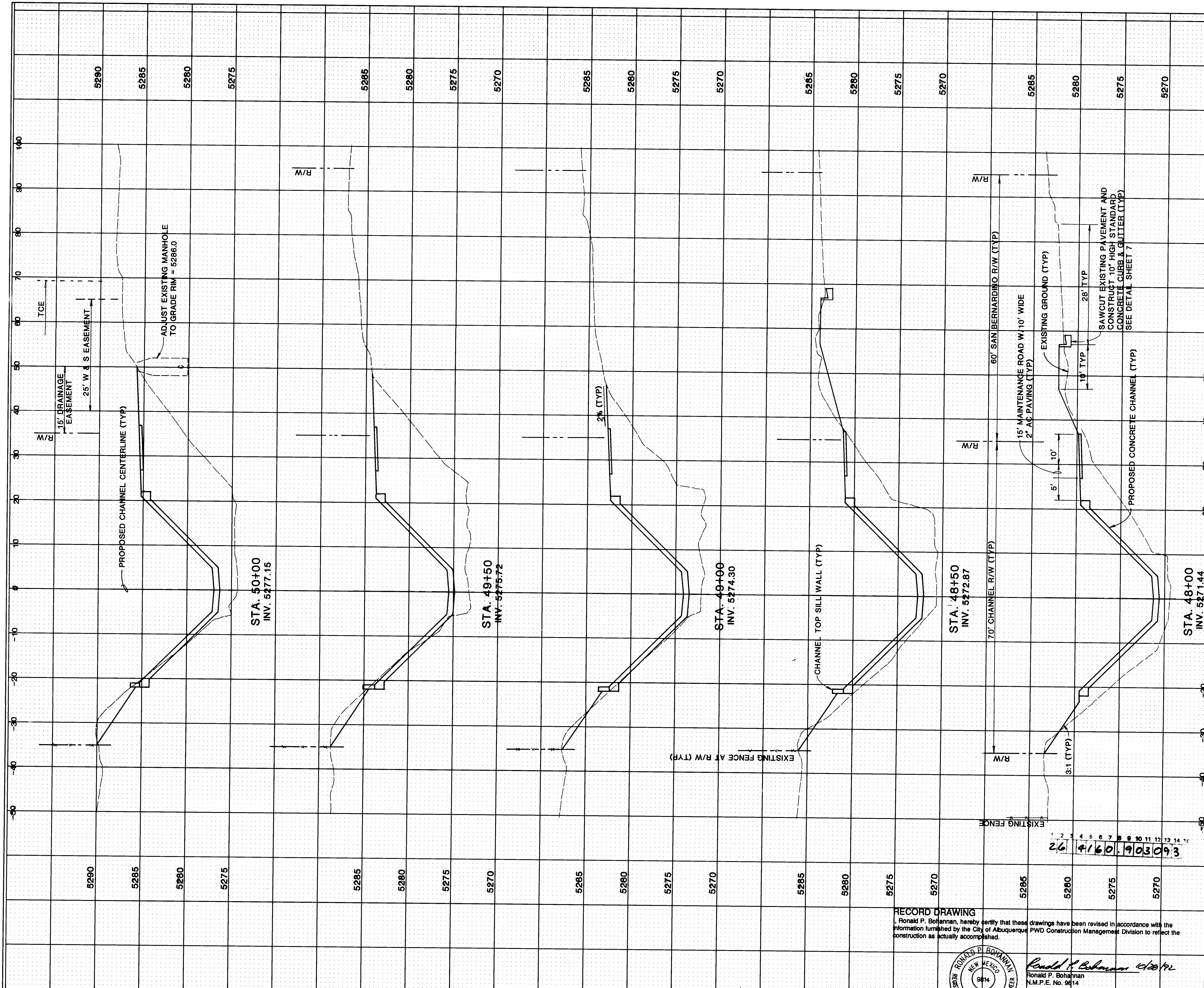
TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
CHANNEL CROSS-SECTIONS STA. 45+00 TO STA. 47+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>Ronald P. Bohannon</i>	11-19-91	WATER	<i>MSH</i>	11-19-91
TRANS. DEV.	<i>R. Dwyer</i>	11-18-91	WASTE WATER	<i>MSH</i>	-
HYDROLOGY	<i>Simon Bolger</i>	11-18-91			

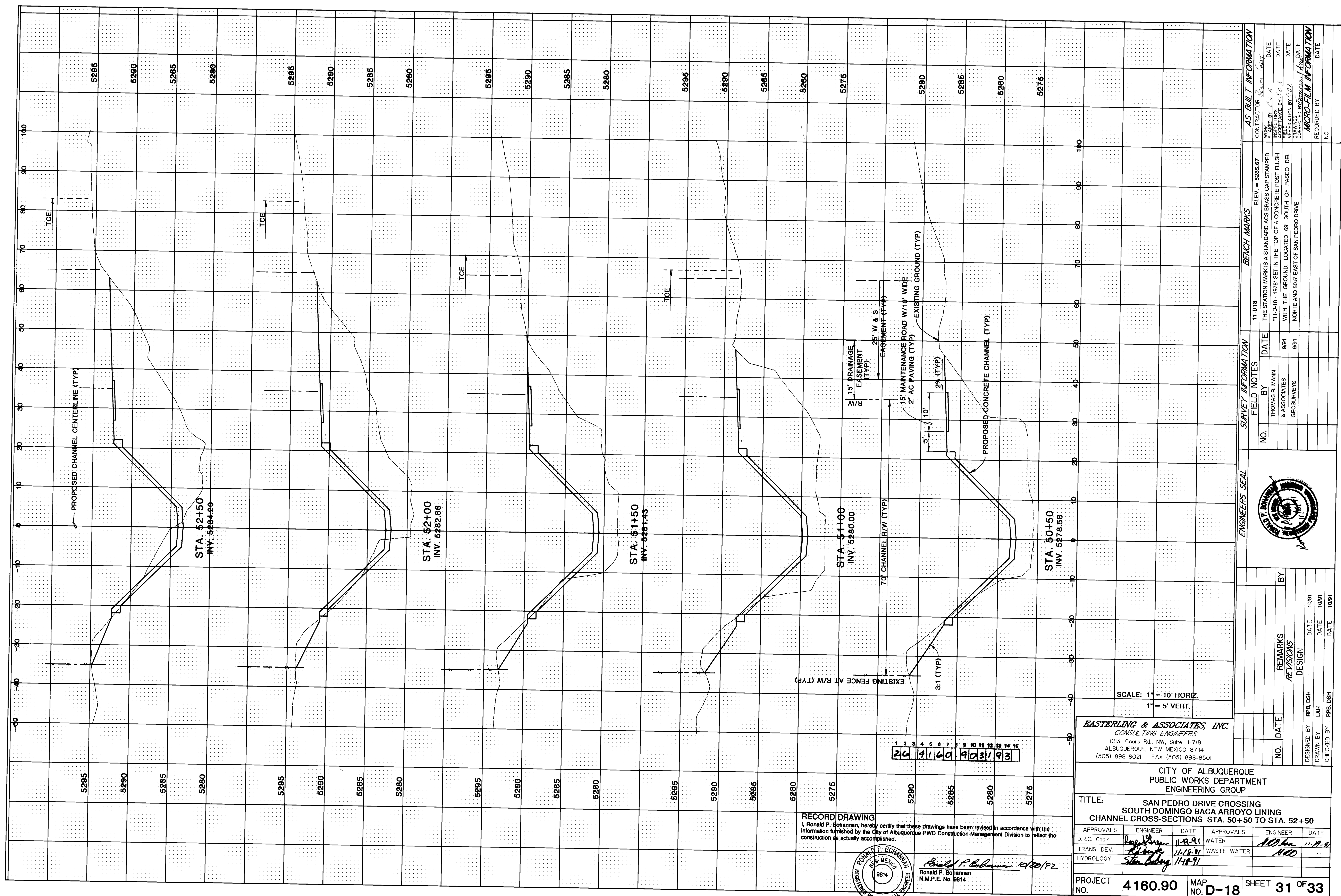
PROJECT NO. 4160.90 MAP NO. D-18 SHEET 29 OF 33

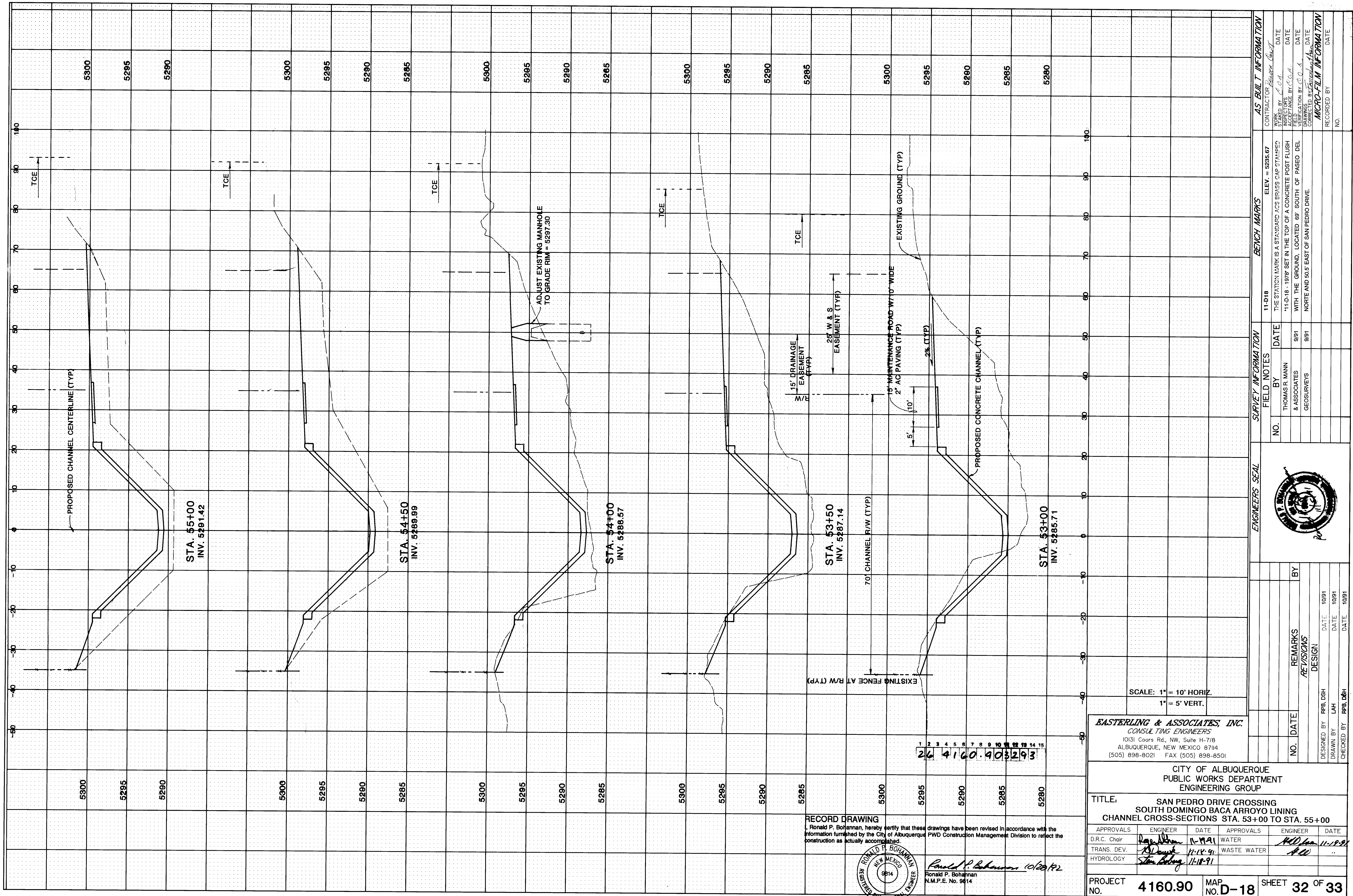
ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO. DATE REMARKS REVISIONS BY		FIELD NOTES		11-D18		CONTRACTOR	
		THOMAS R. MANN & ASSOCIATES GEOSURVEYS		THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED "11-D-18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 68' SOUTH OF PASSED DEL NORTE AND 56.5' EAST OF SAN PEDRO DRIVE.		STAMPED BY	
DESIGNED BY RPB, DSH		DATE 10/91				REVIEWED BY	
DRAWN BY LAH		DATE 10/91				DATE	
CHECKED BY RPB, DSH		DATE 10/91				DATE	
						NO.	





ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		11-D18		CONTRACTOR: <i>Bohannon</i>	
		BY		THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED		DRAWN BY: <i>R.P.B.</i>	
		THOMAS R. MANN		*11-D-18 - 1978 SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 68' SOUTH OF PASEO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE		CHECKED BY: <i>R.P.B.</i>	
		9/91		9/91		DATE	
REVISIONS		DATE		DATE		DATE	
DESIGN		10/91		10/91		10/91	
DRAWN BY: RPB, DSH		DATE: 10/91		DATE: 10/91		DATE: 10/91	
CHECKED BY: RPB, DSH		DATE: 10/91		DATE: 10/91		DATE: 10/91	
NO.		DATE		DATE		DATE	
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183		11-18-91		11-18-91		11-18-91	





RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.

Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 9614

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

26 4160.90 3293

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

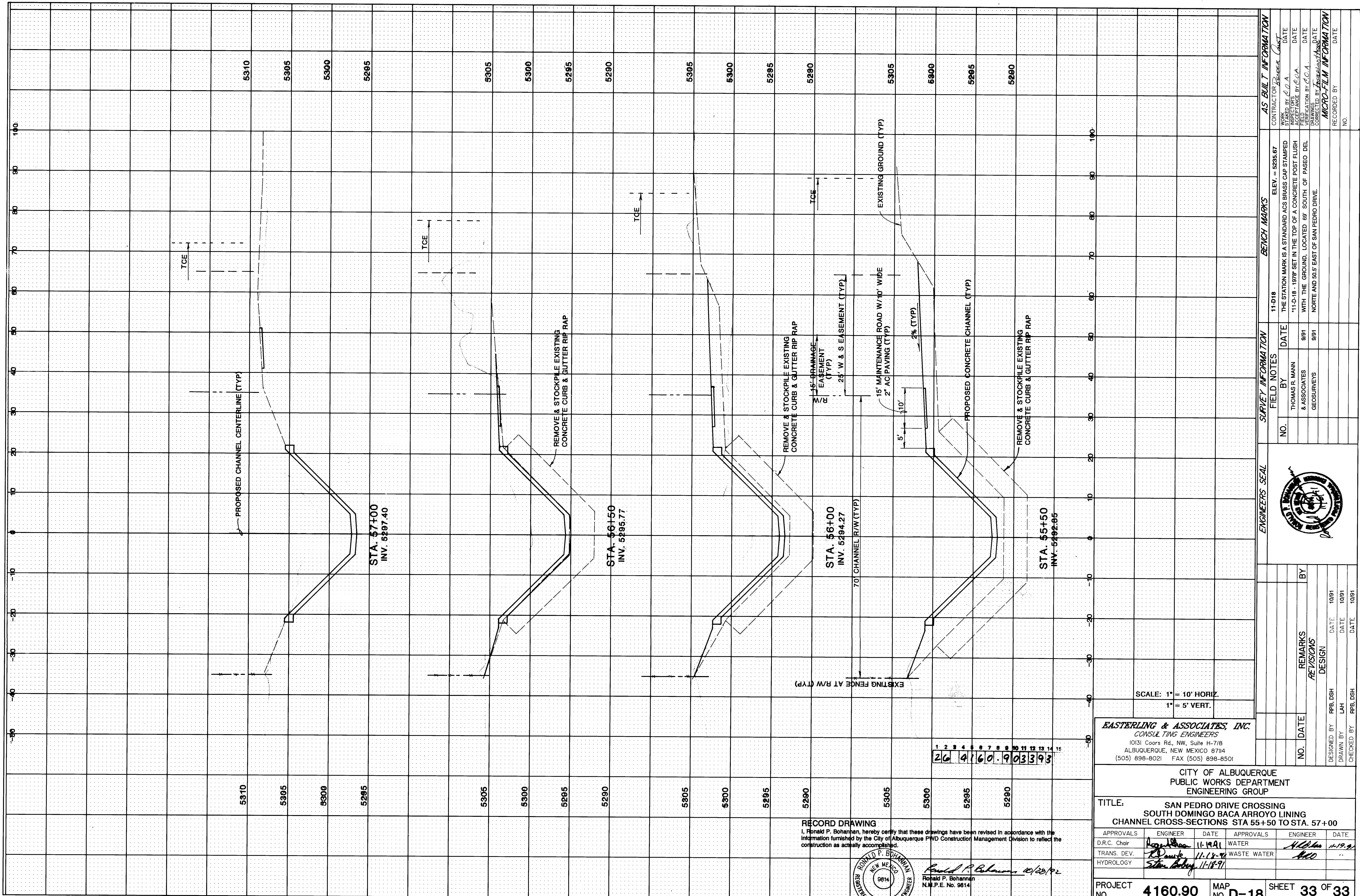
TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
CHANNEL CROSS-SECTIONS STA. 53+00 TO STA. 55+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannon</i>	11-19-91	WATER	<i>MDM</i>	11-19-91
TRANS. DEV.	<i>Stacy Bohannon</i>	11-18-91	WASTE WATER	<i>MDM</i>	11-18-91
HYDROLOGY	<i>Stacy Bohannon</i>	11-18-91			

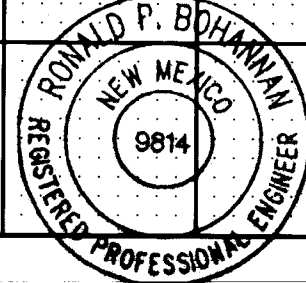
DESIGNED BY: RPB DSH
DRAWN BY: LAH
CHECKED BY: RPB, LSH

PROJECT NO. 4160.90 MAP NO. D-18 SHEET 32 OF 33

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		NO.	DATE	11-D18	ELEV. = 5235.67	CONTRACTOR	DATE
		THOMAS R. MANN & ASSOCIATES	9/91	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED		WORKED BY	11-18-91
		GEOSURVEYS	9/91	*11-D-18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 69' SOUTH OF PASEO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.		ACCEPTANCE BY	11-18-91
						VERIFICATION BY	11-18-91
						MICRO-FILM INFORMATION	
						RECORDED BY	DATE
						NO.	



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/23/92
Ronald P. Bohannon
N.M.P.E. No. 9814

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-716
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

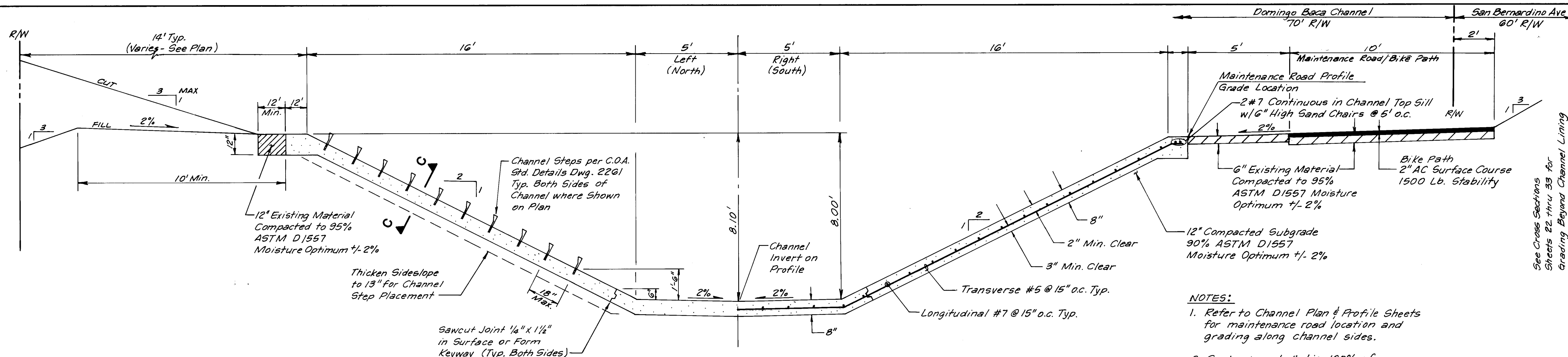
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
CHANNEL CROSS-SECTIONS STA 55+50 TO STA. 57+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	R. Bohannon	11-19-91	WATER	ALB	11-19-91
TRANS. DEV.	R. Bohannon	11-18-91	WASTE WATER	ALB	11-18-91
HYDROLOGY	Stacy Bohannon	11-18-91			

PROJECT NO. 4160.90 MAP NO. D-18 SHEET 33 OF 33

ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
NO.			FIELD NOTES			11-518			CONTRACTOR		
BY			DATE			THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED			WORKED BY		
REMARKS			THOMAS R. MANN			"11-D-18" 1978" SET IN THE TOP OF A CONCRETE POST FLUSH			INSPECTORS		
REVISIONS			991			WITH THE GROUND, LOCATED 69' SOUTH OF PASEO DEL			ACCEPTANCE BY		
DESIGN			GEOSURVEYS			NORTE AND 50.5' EAST OF SAN PEDRO DRIVE			VERIFICATION BY		
NO.			991			DRAWN BY			DRAWN BY		
DATE			10/91			CHECKED BY			CHECKED BY		
DESIGNED BY			RFB, DSH			RECORDED BY			RECORDED BY		
DRAWN BY			LAH			NO.			NO.		
CHECKED BY			RFB, DSH			DATE			DATE		

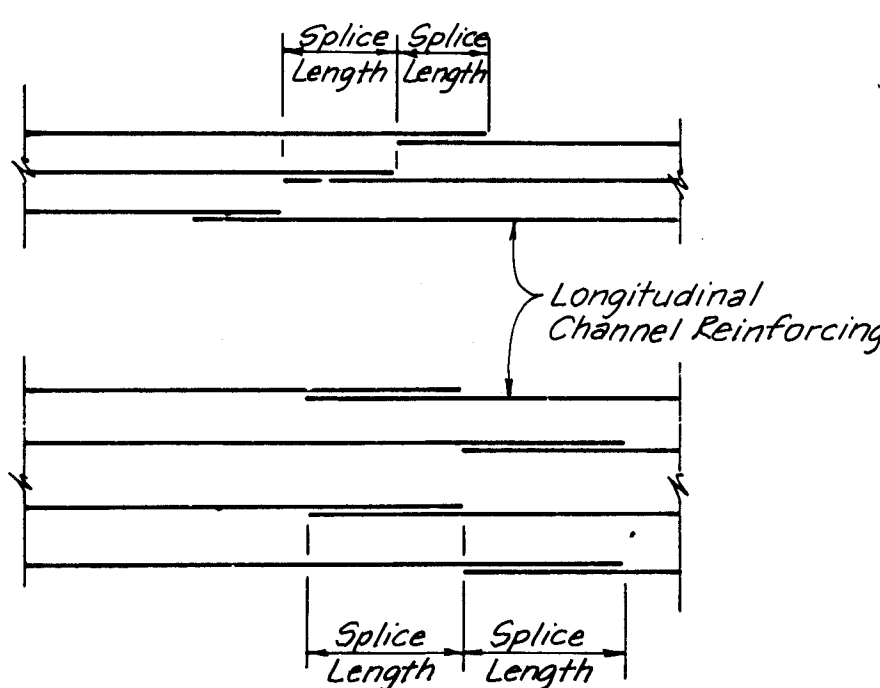
See Cross Sections
Sheets 22 thru 33 for
Grading Beyond Channel Lining



TYPICAL CHANNEL SECTION

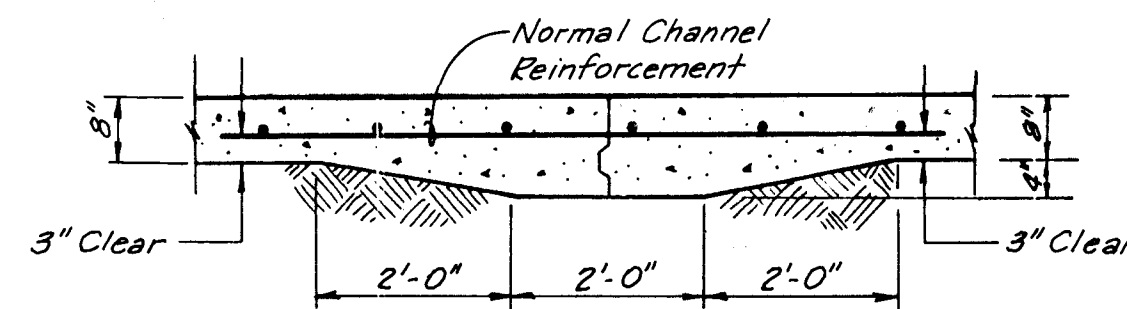
BAR SIZE	SPLICE LENGTH
#5	1'-3"
#7	2'-0"

TYPICAL CHANNEL REINFORCING SPLICE LENGTH

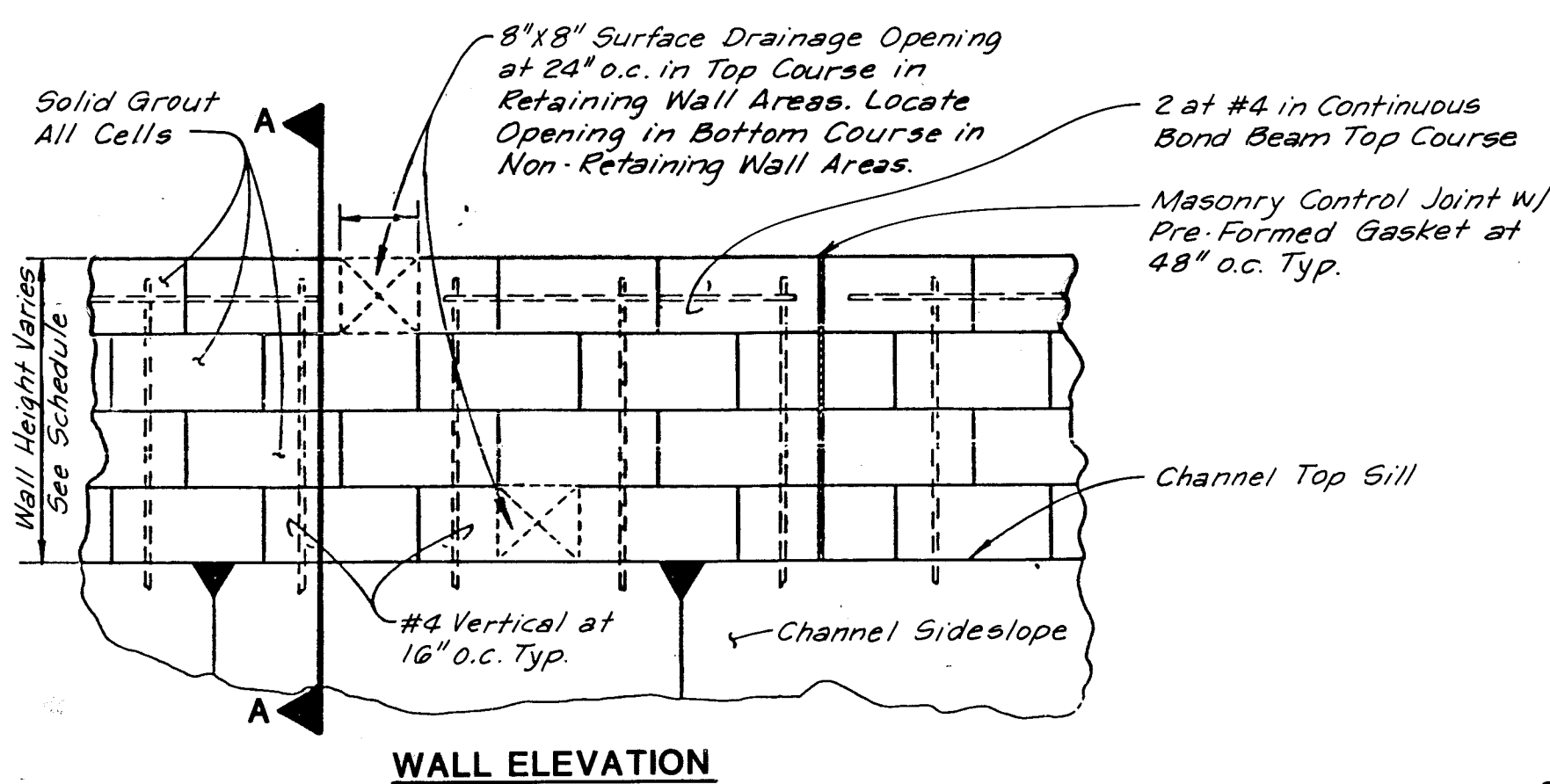


NOTE: Longitudinal channel reinforcing shall have alternating splice or diagonal splice (not required for transverse bars).

TYPICAL LONGITUDINAL SPLICE



CONSTRUCTION JOINT DETAIL



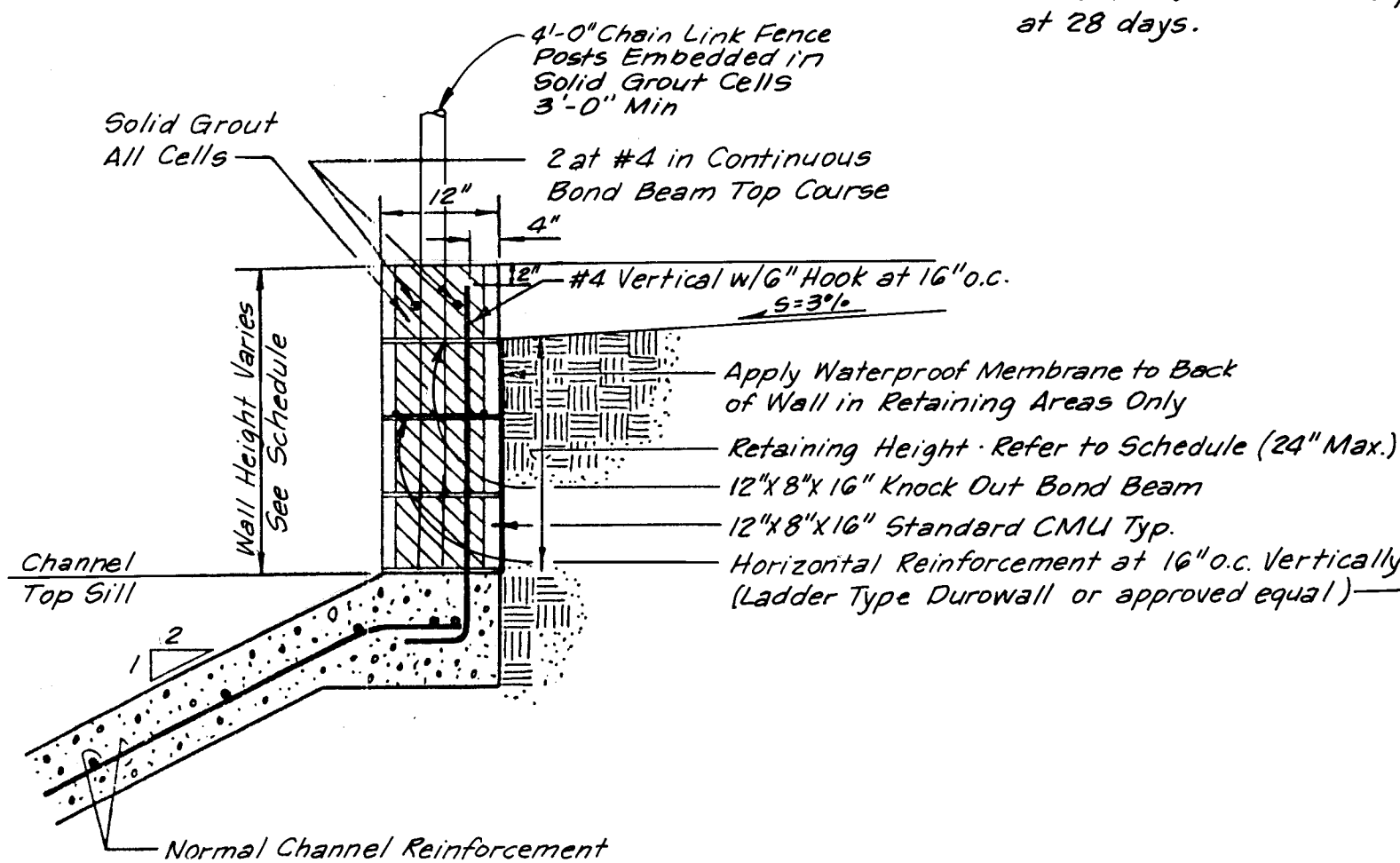
WALL ELEVATION

CHANNEL TOP SILL WALL DETAIL

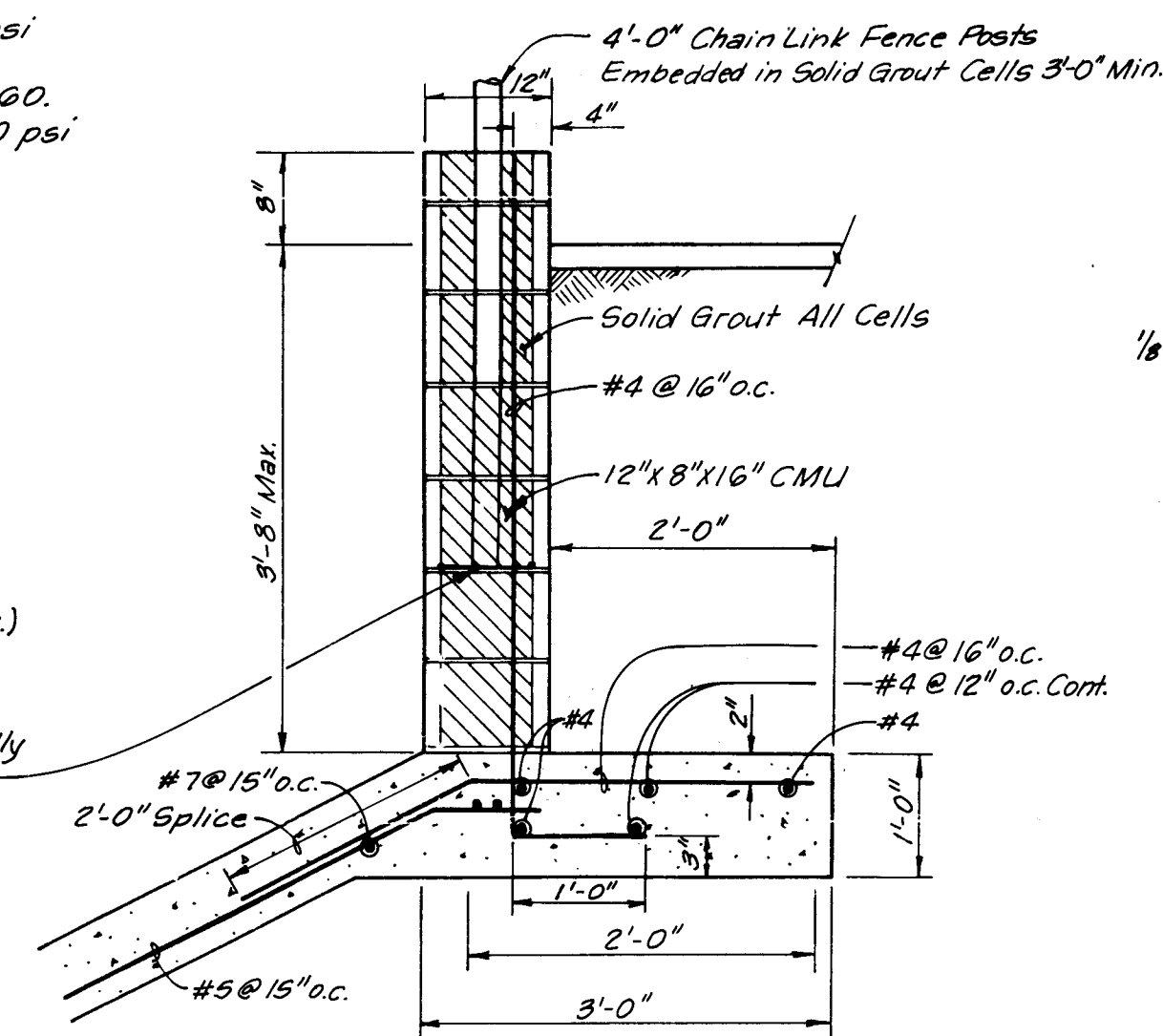
See Wall Schedule This Sheet

NOTES:

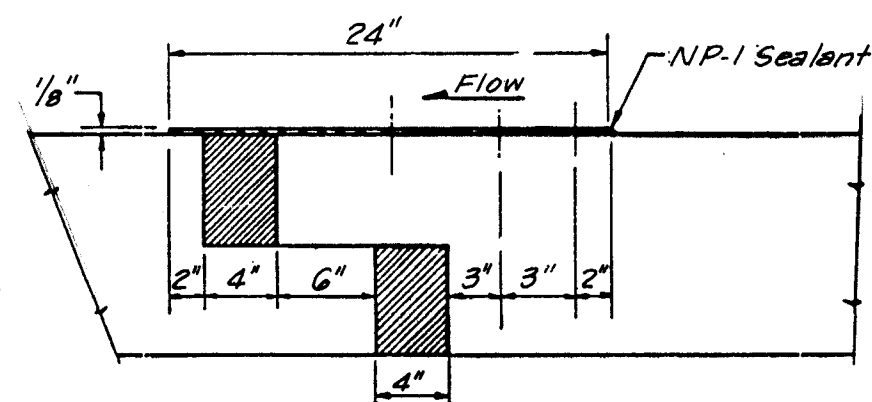
1. Grout shall be 2500 psi at 28 days.
2. Steel shall be Grade 60.
3. Concrete shall be 4000 psi at 28 days.



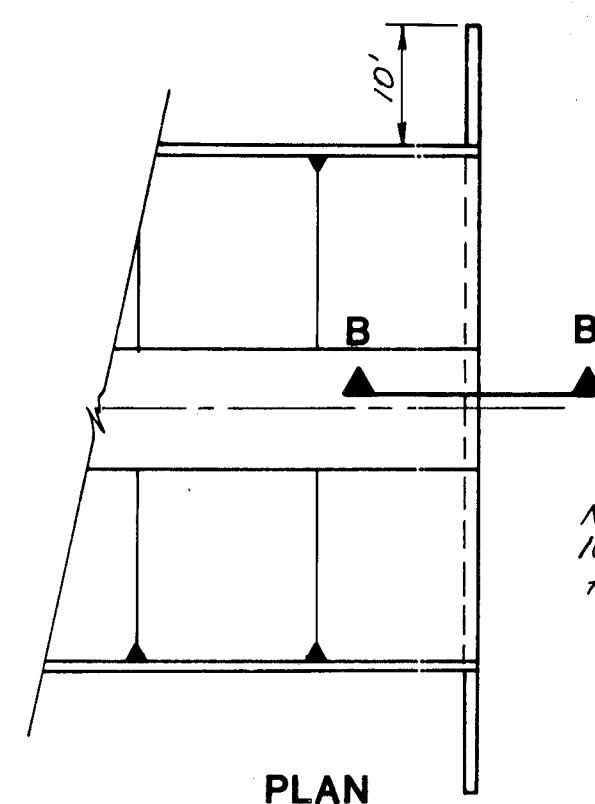
SECTION A-A WALL HEIGHTS UP TO 2'-0" CHANNEL TOP SILL WALL DETAIL



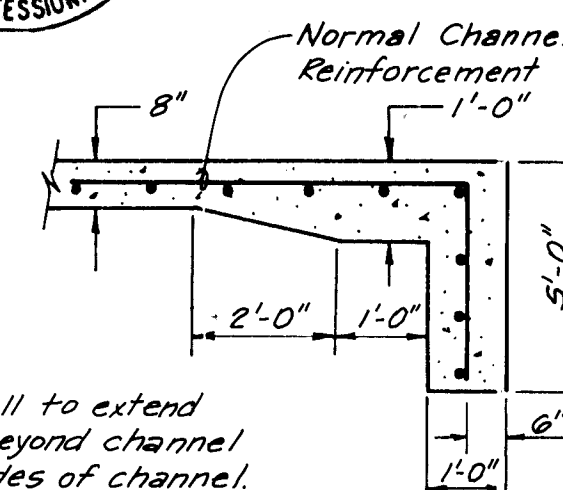
SECTION A-A WALL HEIGHTS FROM 2'-0" TO 3'-8" CHANNEL TOP SILL WALL DETAIL



VANDAL PROTECTION PLATE DETAIL AT EXPANSION JOINT STA. 57+00



PLAN

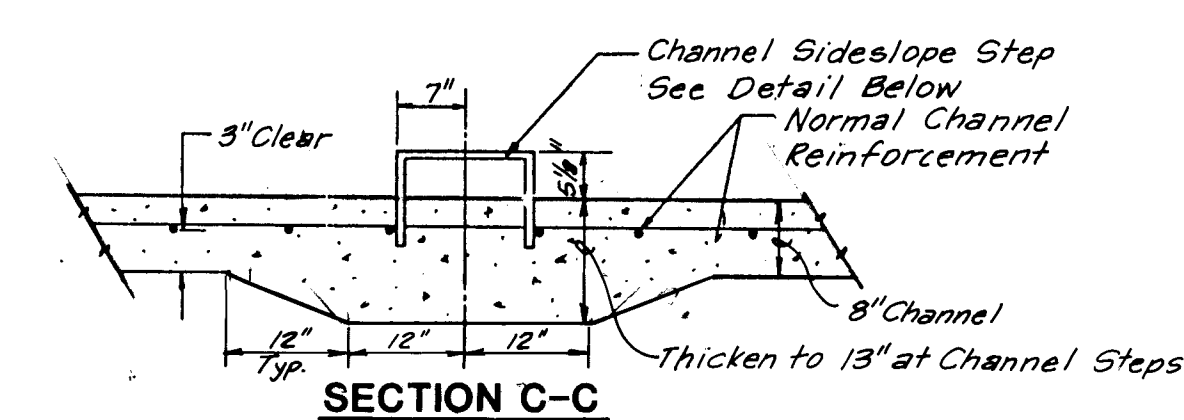


SECTION B-B

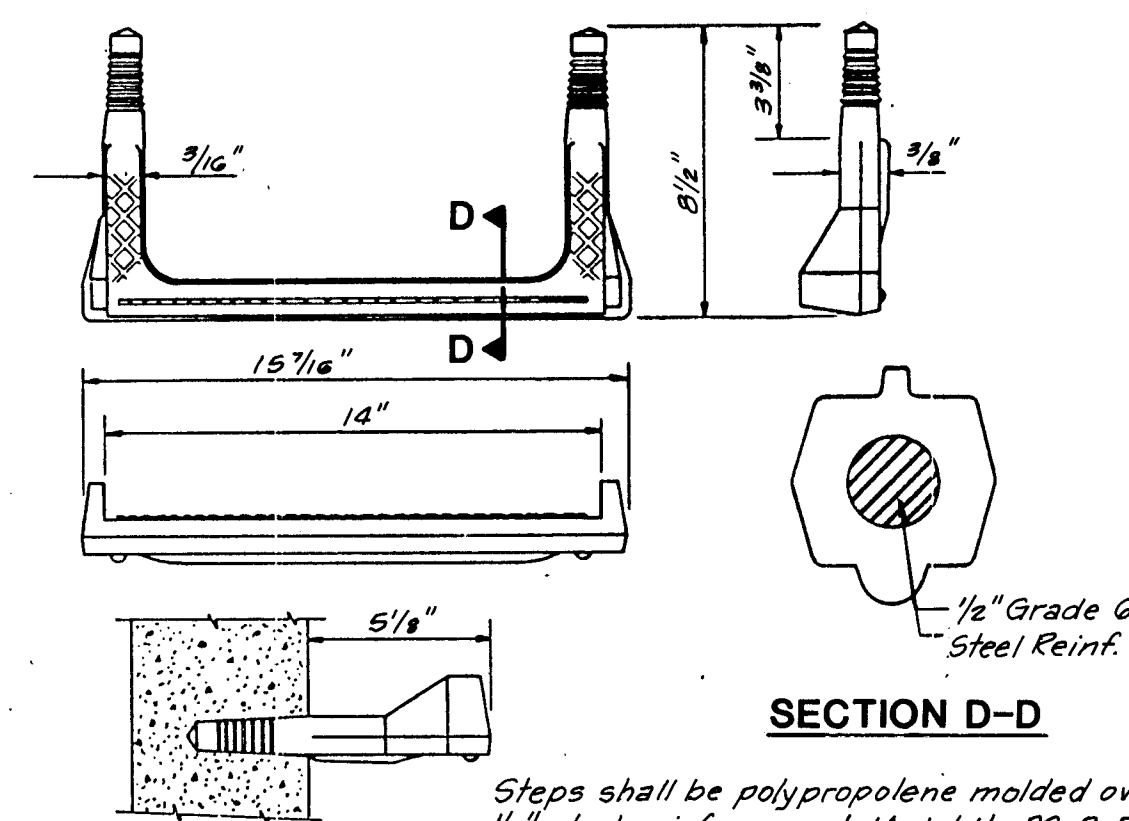
NOTE: Cutoff Wall to extend 10' horizontally beyond channel top sill both sides of channel.

CHANNEL CUTOFF WALL DETAIL

NO SCALE



SECTION C-C



SECTION D-D

TYPICAL SIDESLOPE LADDER DETAIL

CHANNEL TOP SILL WALL SCHEDULE

LEFT	RIGHT	NOTES
BACKFILL	BACKFILL	
HEIGHT	HEIGHT	
STATION	STATION	
1.	0-0	67+00
1.	0'-8"	60+25
1.	0'-8"	48+42
1.	0'-8"	36+44
2.	0'-8"	34+82
2.	0'-8"	34+50
2.	0'-8"	34+40
2.	0'-8"	34+30
2.	0'-8"	34+20
2.	0'-8"	34+10
2.	0'-8"	33+90
2.	0'-8"	33+70
2.	0'-8"	33+48
2.	0'-8"	33+24
2.	0'-8"	33+12
2.	0'-8"	33+04
2.	0'-8"	32+82
2.	0'-8"	32+62
2.	0'-8"	31+92
1.	0'-8"	30+80

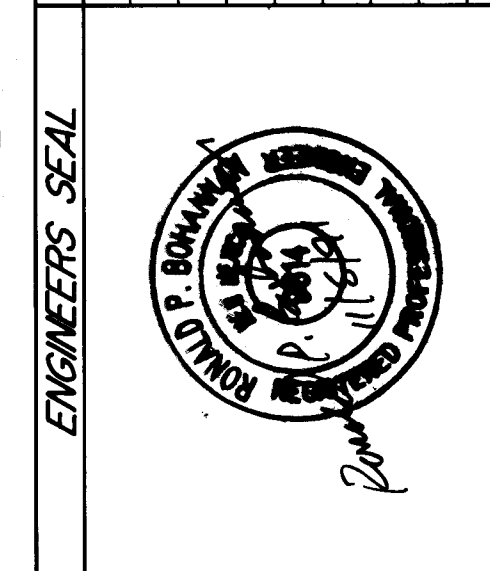
LEFT	RIGHT	NOTES
BACKFILL	BACKFILL	
HEIGHT	HEIGHT	
STATION	STATION	
1.	0-0	67+00
1.	0'-8"	60+25
1.	0'-8"	48+42
1.	0'-8"	36+44
2.	0'-8"	34+82
2.	0'-8"	34+50
2.	0'-8"	34+40
2.	0'-8"	34+30
2.	0'-8"	34+20
2.	0'-8"	34+10
2.	0'-8"	33+90
2.	0'-8"	33+70
2.	0'-8"	33+48
2.	0'-8"	33+24
2.	0'-8"	33+12
2.	0'-8"	33+04
2.	0'-8"	32+82
2.	0'-8"	32+62
2.	0'-8"	31+92
1.	0'-8"	30+80

- NOTES:
1. ZERO DIMENSION IN WALL HEIGHT COLUMN INDICATES NO WALL REQUIRED.
 2. ZERO DIMENSION IN BACKFILL HEIGHT INDICATES NO BACKFILL REQUIRED.
 3. REFER TO RUNDOWN DETAIL FOR INFORMATION REGARDING WALL CONSTRUCTION AT RUNDOWN.
 4. INSTALL 4" CHAIN LINK FENCE WITH POSTS IMBEDDED IN TOP OF WALL ALONG RIGHT SIDE OF CHANNEL FROM STA 31+92 TO STA 34+82 PER COA STD DWG 2262.

NOTES:

1. EXCAVATION, BACKFILL AND COMPACTION FOR CHANNEL AND RUNDOWN CUTOFF WALLS SHALL BE CONSIDERED INCIDENTAL TO CHANNEL AND RUNDOWN CONSTRUCTION AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

SURVEY INFORMATION				BENCH MARKS		AS BUILT INFORMATION			
NO.	FIELD NOTES		DATE	11-D18	ELEV. = 5235.67	CONTRACTOR	Brewer Co. Inc.		
	BY	THOMAS R. MANN & ASSOCIATES	9/91			WORK STARTED BY	C.O.A.		
						INSPECTOR	DATE		
						FIELD VERIFICATION BY	A.C.A.		
						WITH THE GROUND, LOCATED 68' SOUTH OF PASEO DEL NORTE AND 90.5 EAST OF SAN PEDRO DRIVE.	DATE	DATE	
						DATE	CORRECTED BY <i>Thomas R. Mann</i>		
						MICRO-FILM INFORMATION			
						RECORDED BY	DATE		
						NO.			



REVISIONS			
NO.	DATE	BY	REMARKS
1	10/91	RPB	DSH
2	10/91	LAH	DSH
3	10/91	RPB	DSH

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CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

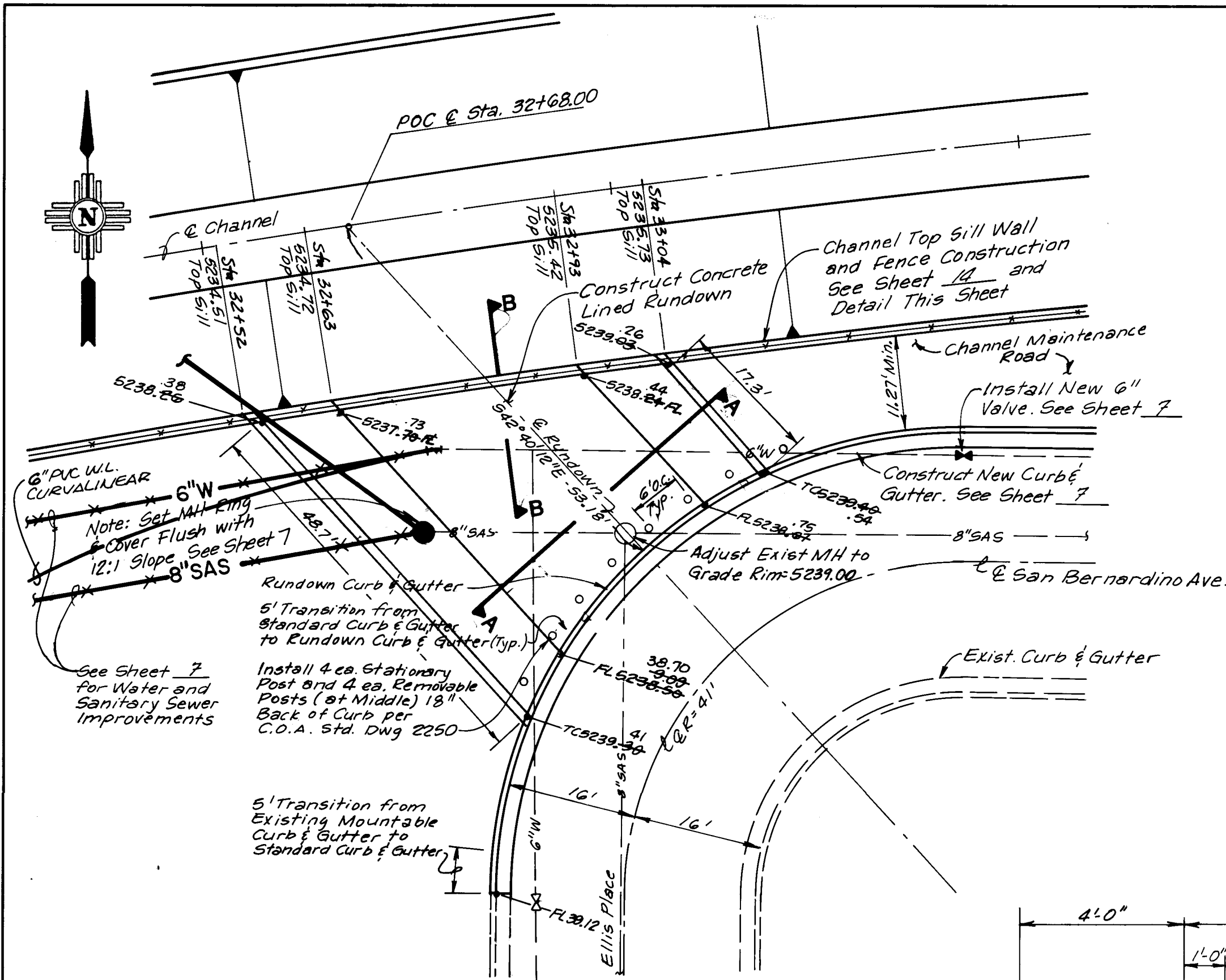
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
TYPICAL CHANNEL DETAILS

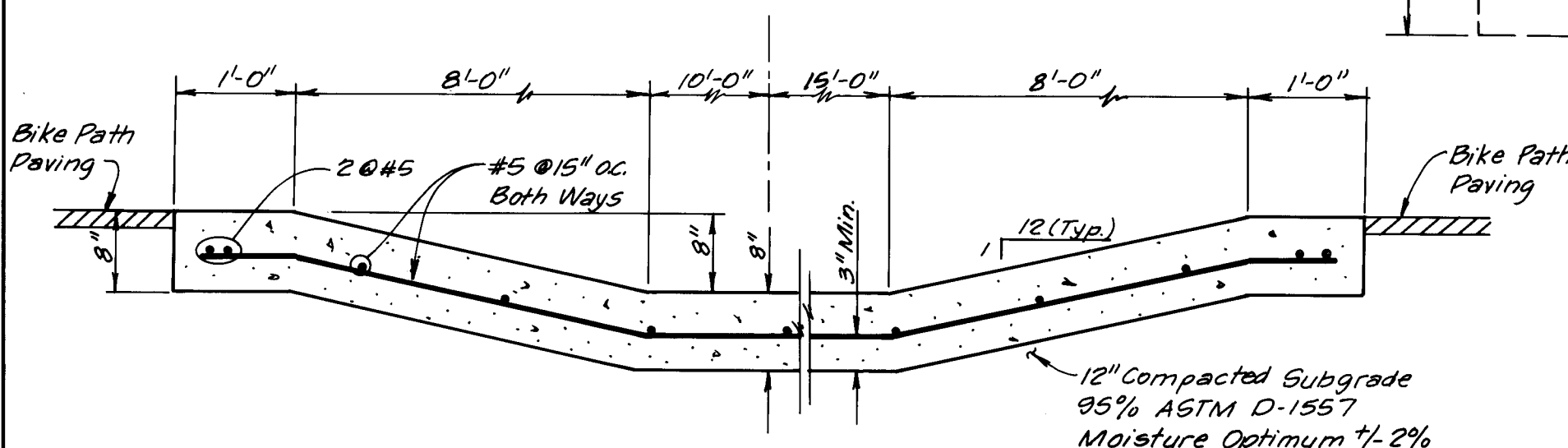
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Bohannon	11-19-91	WATER	Bohannon	11-19-91
TRANS. DEV.	Bohannon	11-18-91	WASTE WATER	Bohannon	11-18-91
HYDROLOGY	Bohannon	11-18-91	PAKES & REC	Bohannon	11-21-91

PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	14 OF 33
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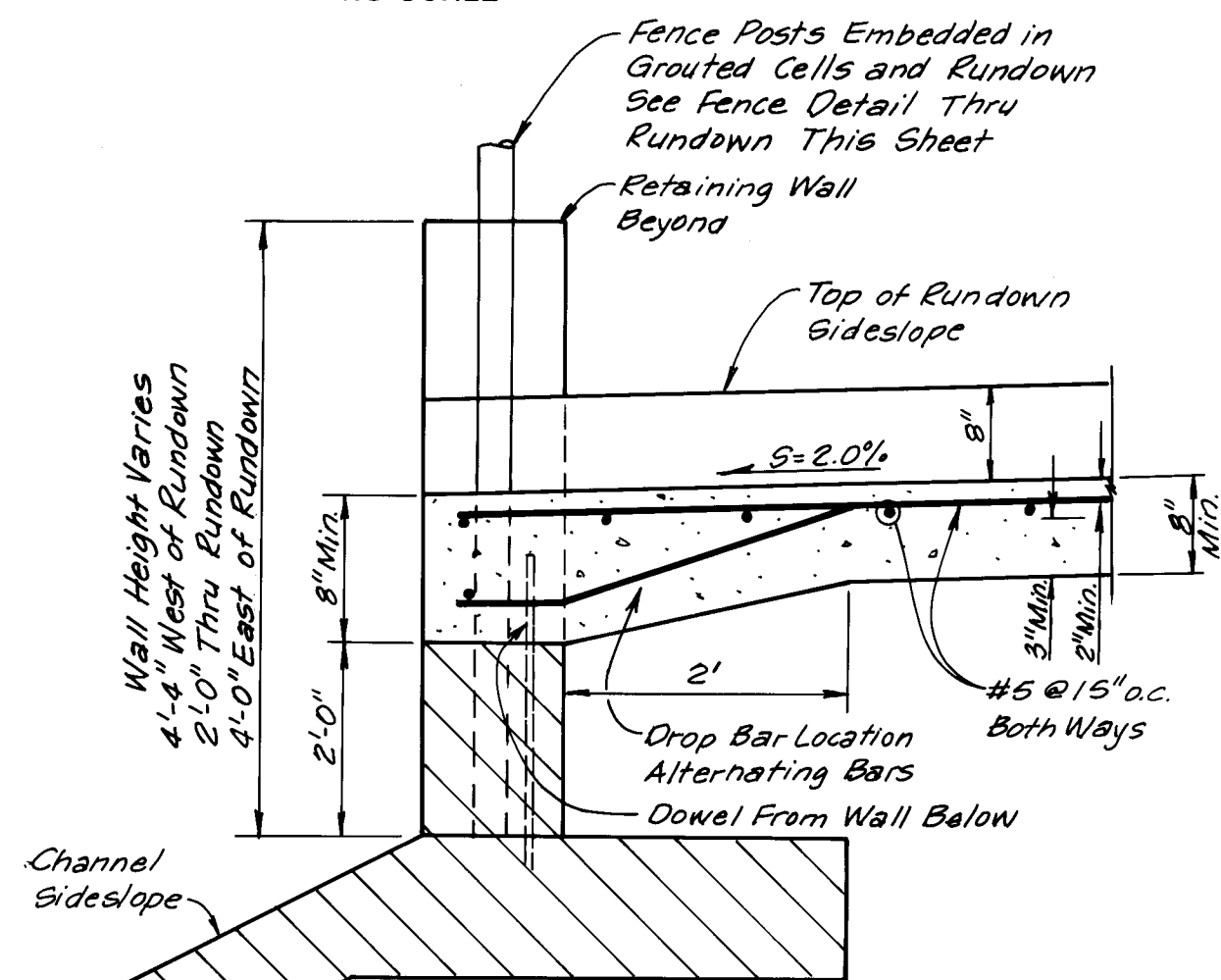
SCANNED BY
BY LASON



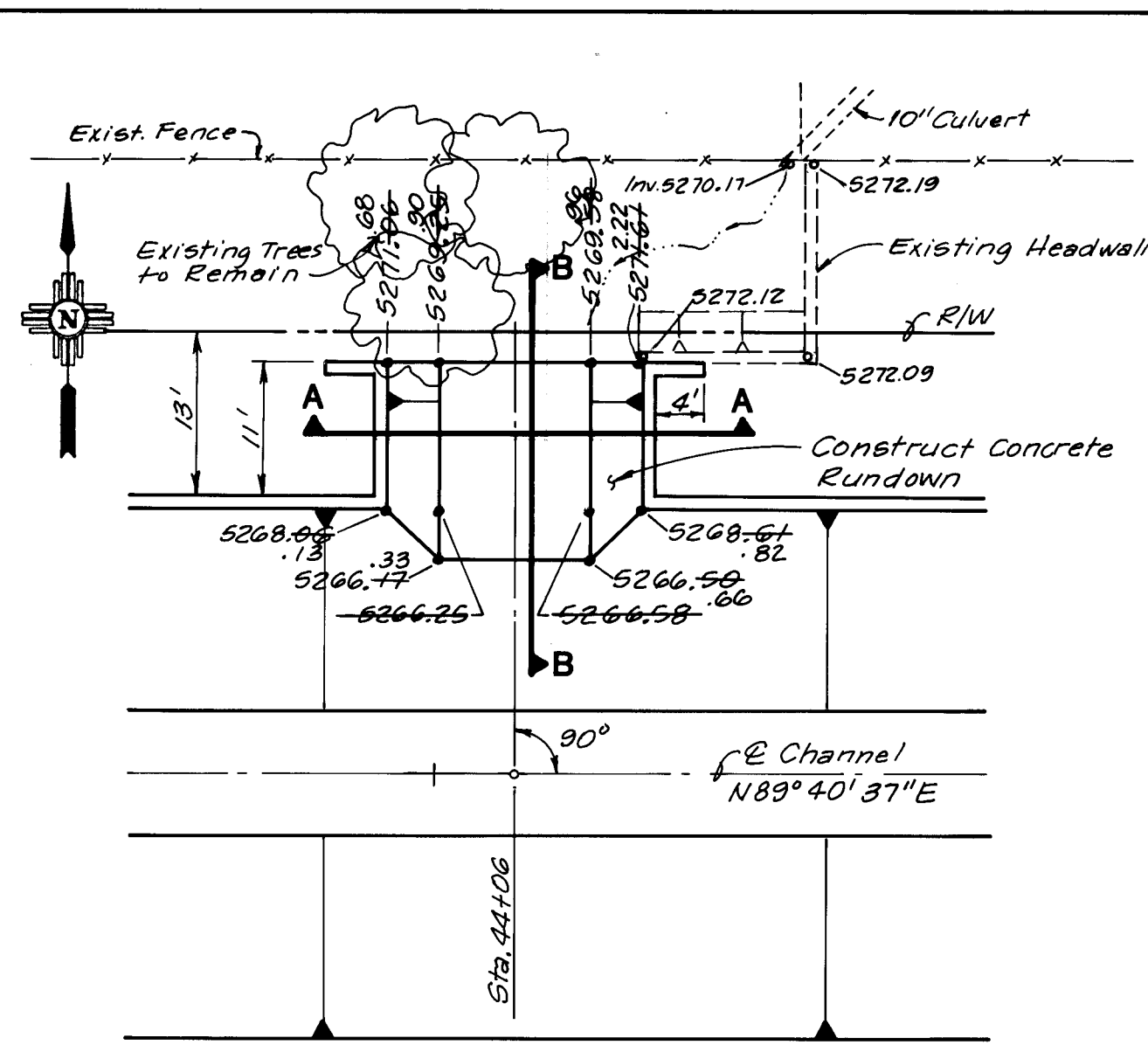
**CHANNEL C STA. 32+68
RUNDOWN PLAN**
NO SCALE



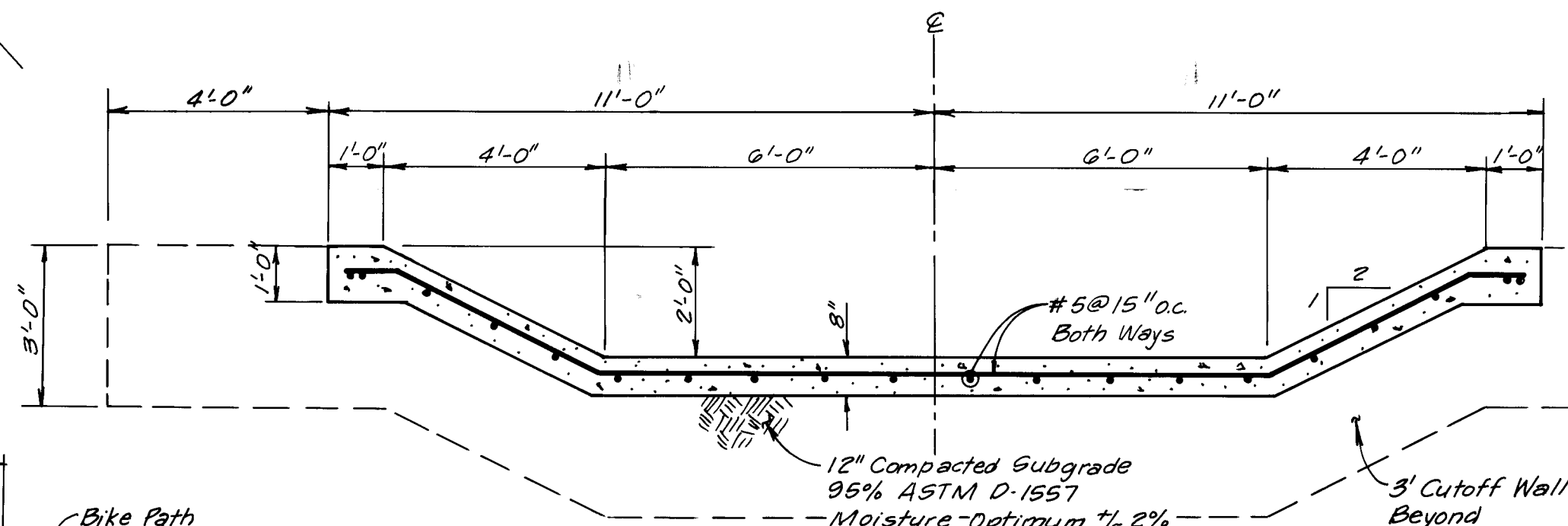
**CHANNEL C STA. 32+68
RUNDOWN SECTION A-A**
NO SCALE



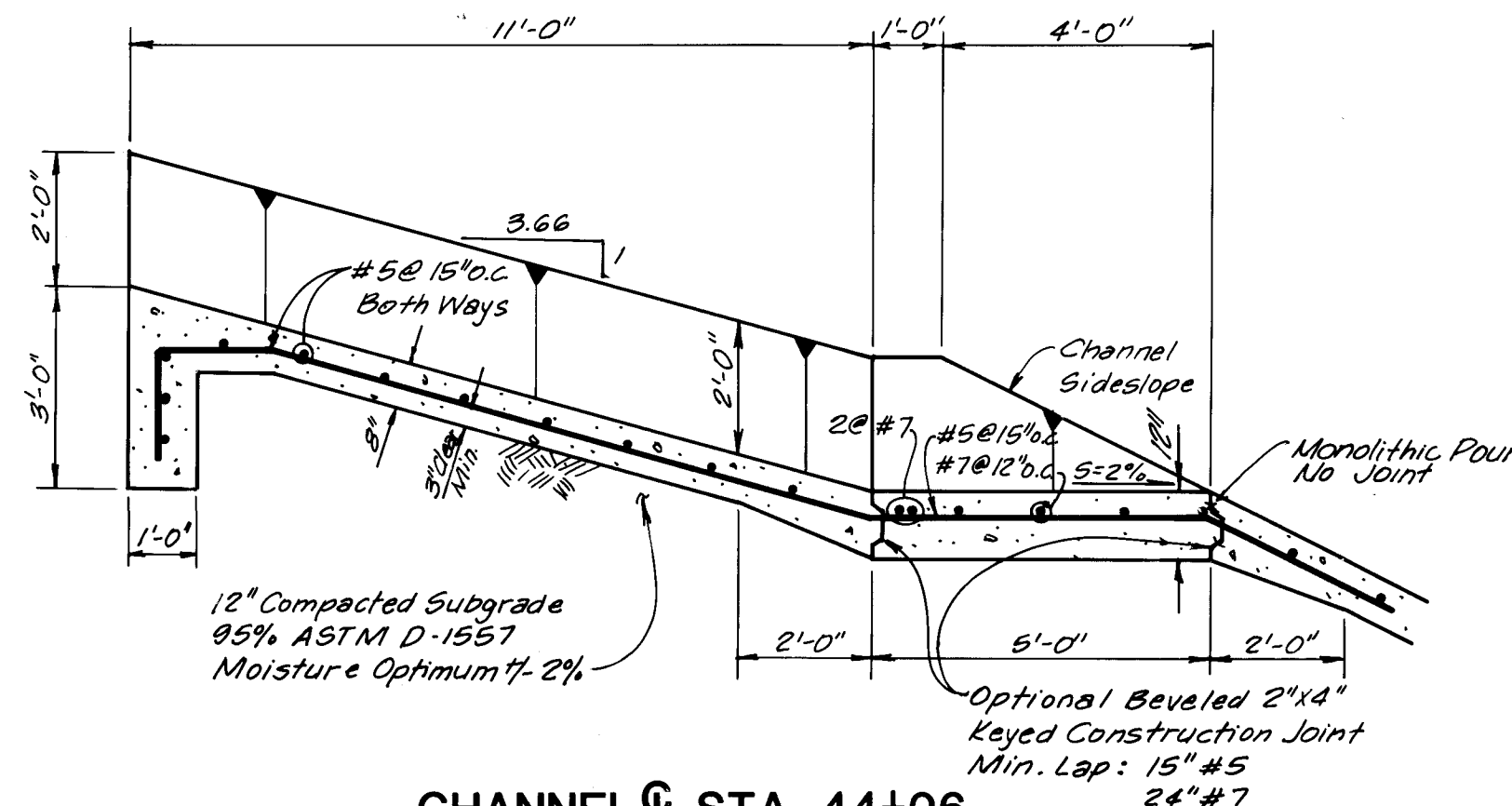
**CHANNEL C STA. 32+68
RUNDOWN SECTION B-B**
NO SCALE



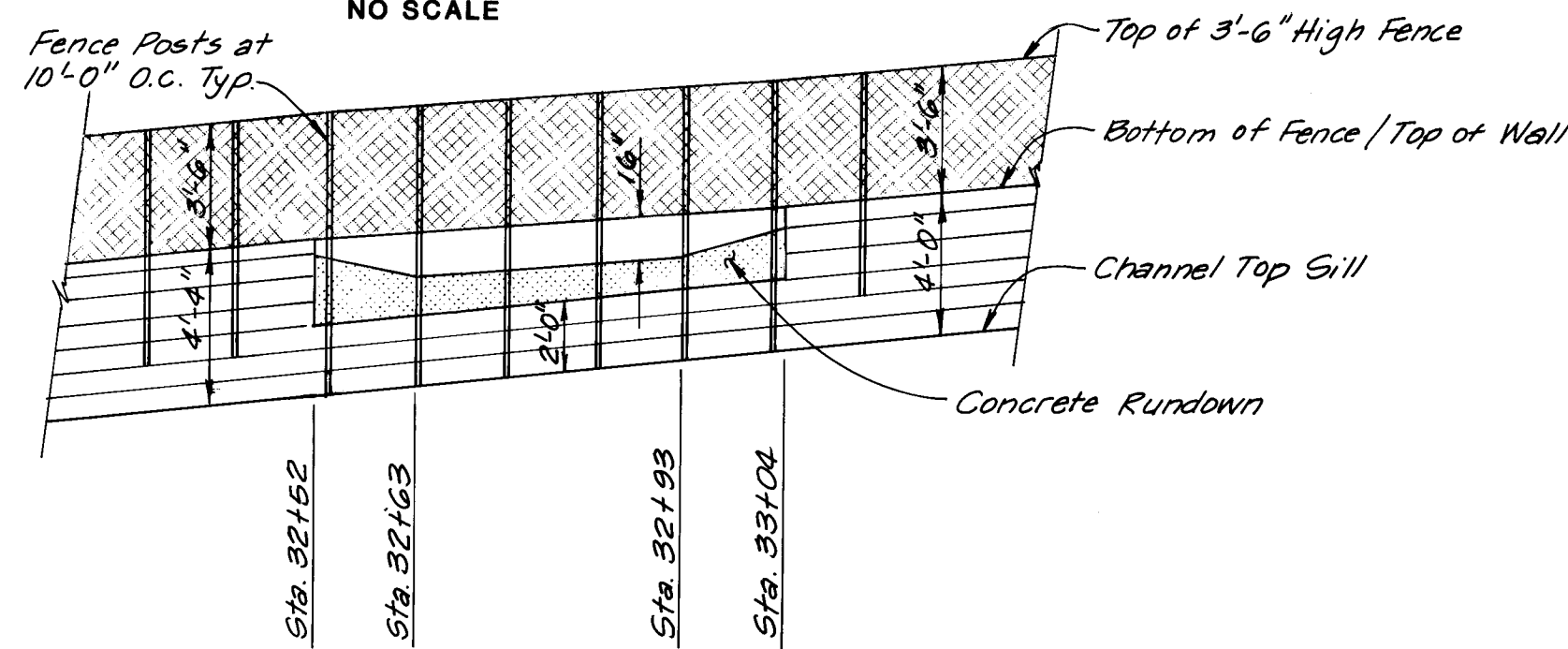
**CHANNEL C STA. 44+06
RUNDOWN PLAN**
NO SCALE



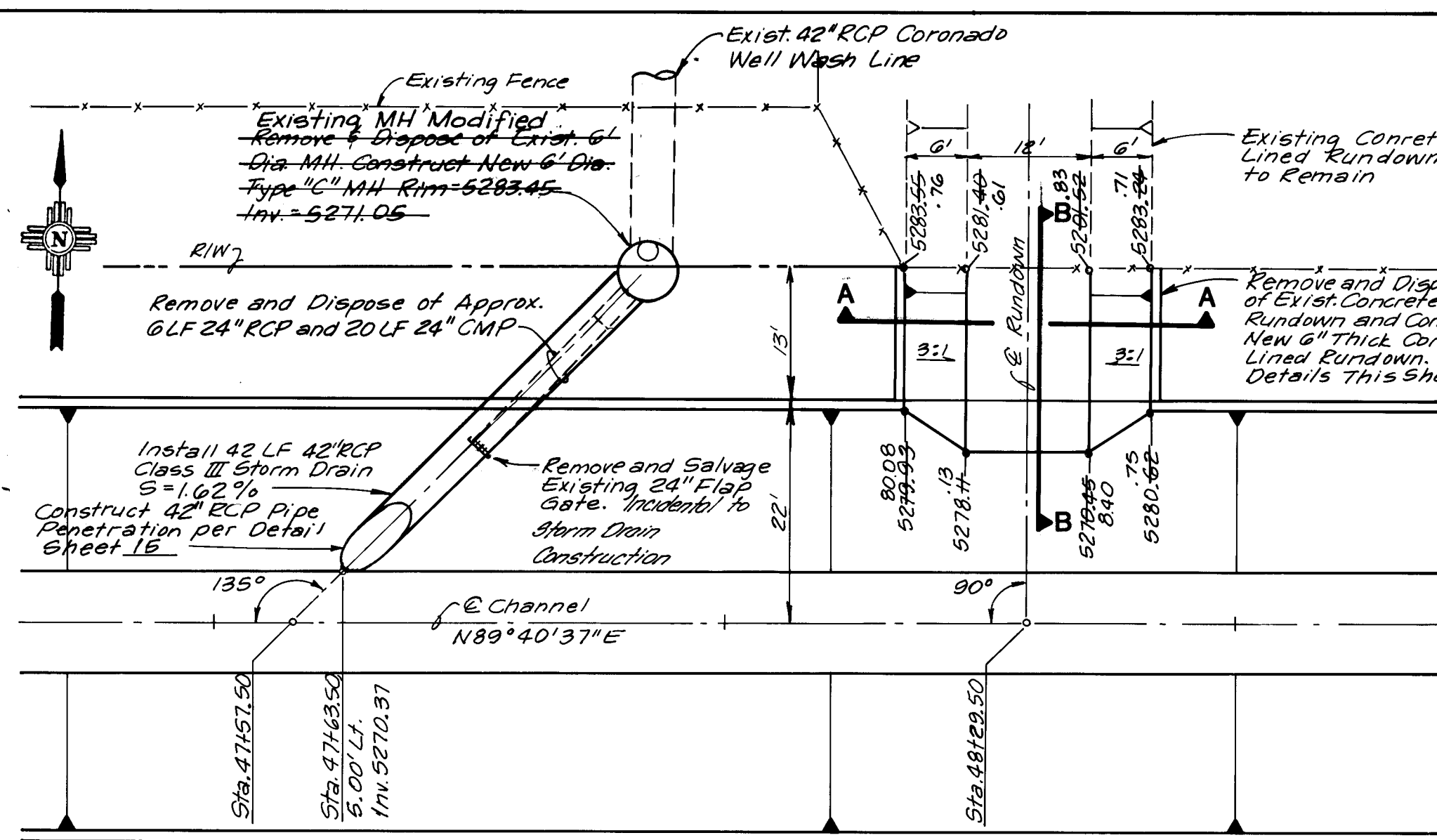
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RUNDOWN SECTION A-A**
NO SCALE



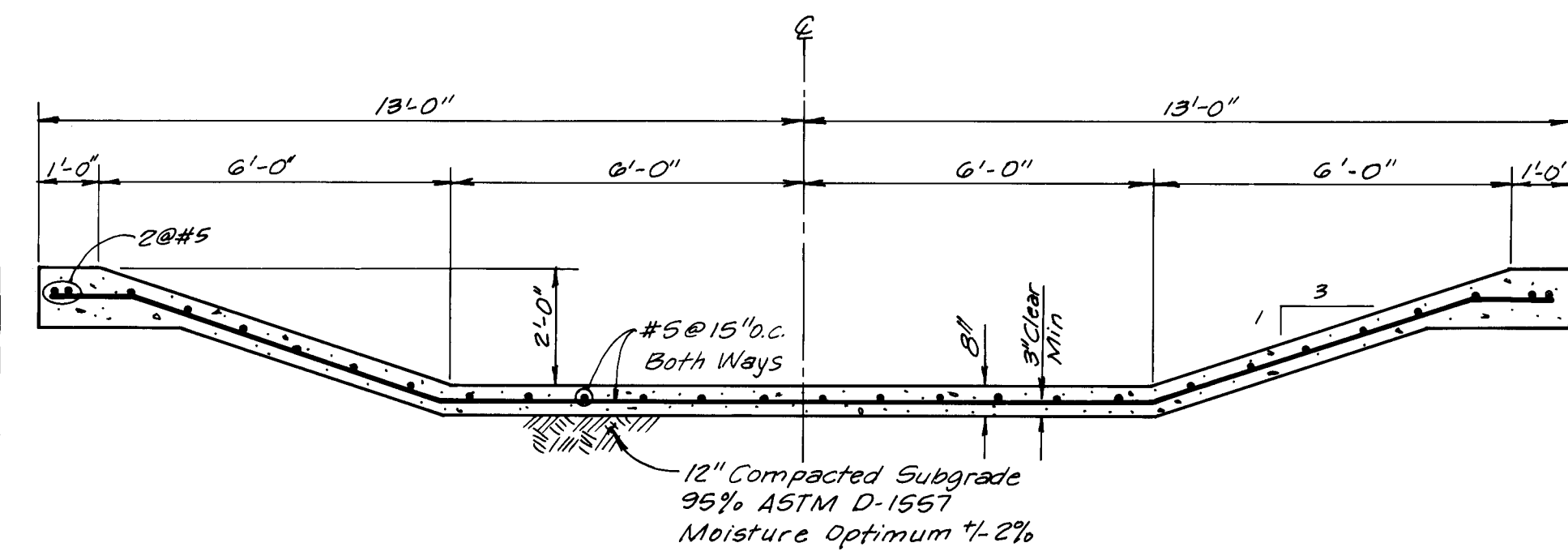
**CHANNEL C STA. 44+06
RUNDOWN SECTION B-B**
NO SCALE



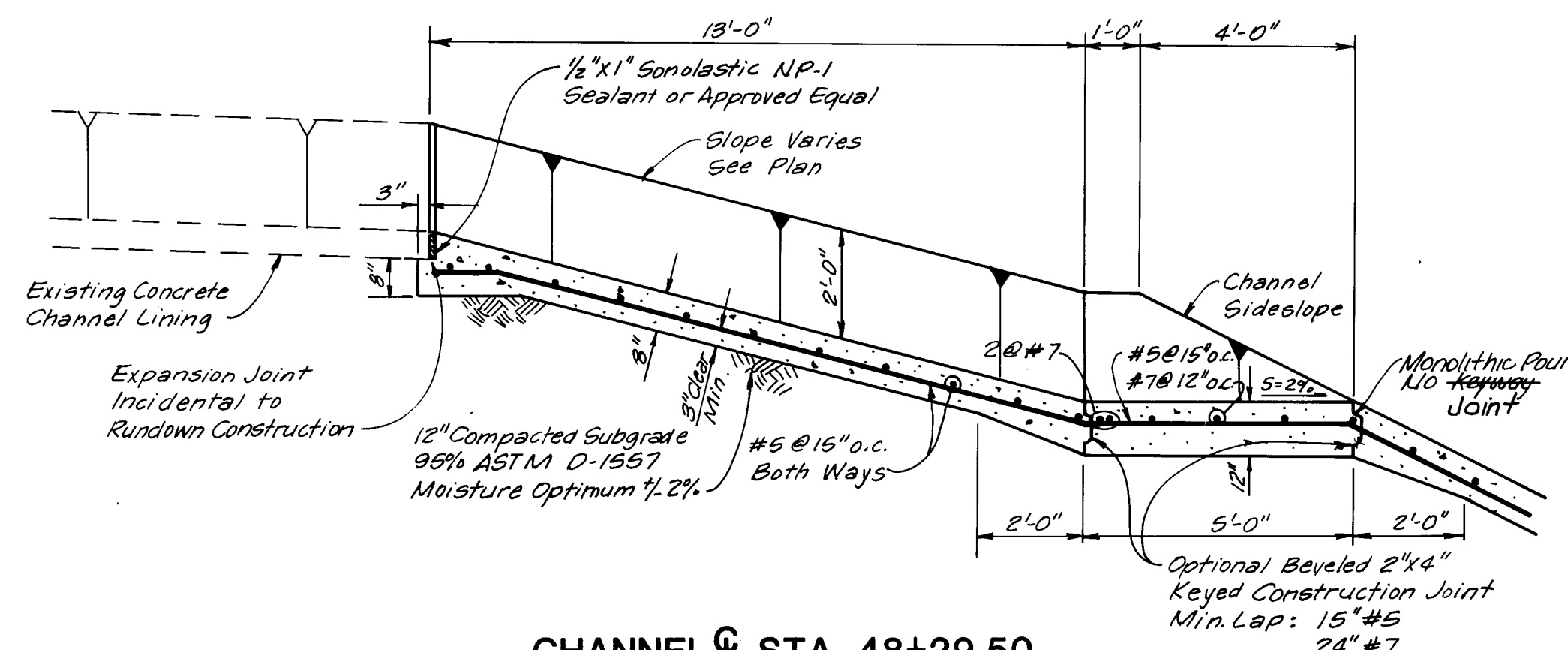
**CHANNEL C STA. 32+68
FENCE DETAIL THRU RUNDOWN**



**CHANNEL C STA. 48+29.50
RUNDOWN PLAN**
NO SCALE



**CHANNEL C STA. 48+29.50
RUNDOWN SECTION A-A**
NO SCALE

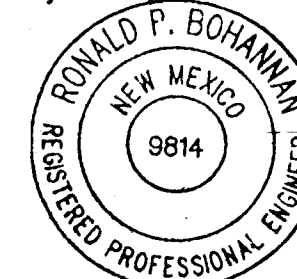


**CHANNEL C STA. 48+29.50
RUNDOWN SECTION B-B**
NO SCALE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4160.90 701693

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/25/92
Ronald P. Bohannon
N.M.P.E. No. 9914

SCANNED BY
BY LASON

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
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(505) 898-8021 FAX (505) 898-8501

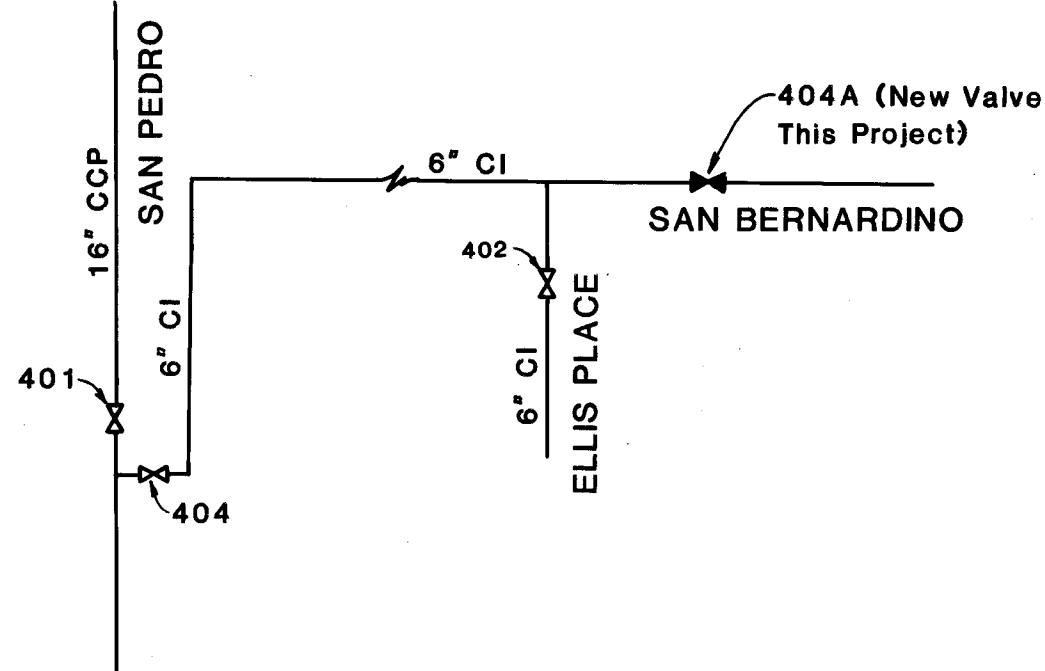
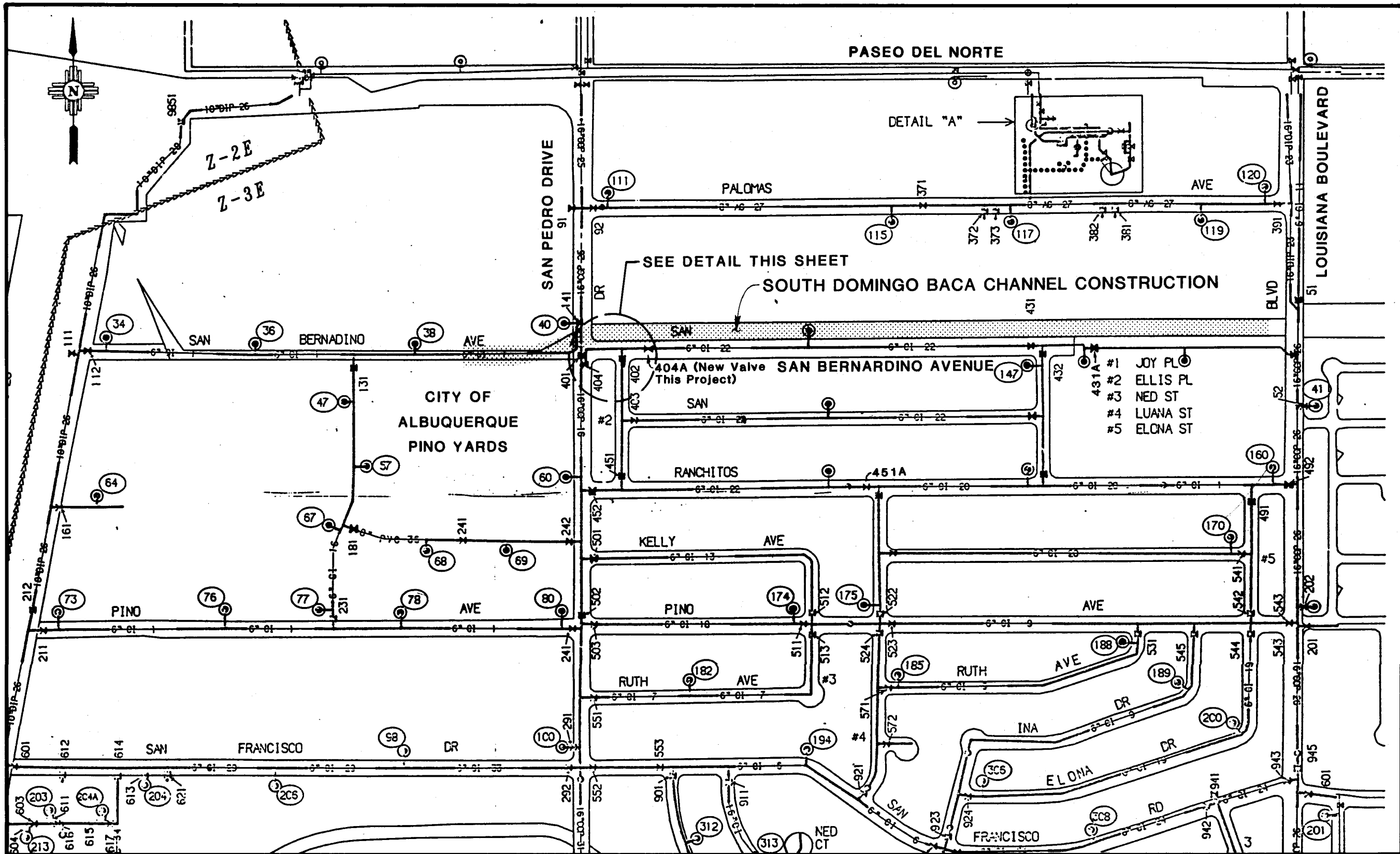
**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
RUNDOWN DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11-19-91	WATER	William	11-19-91
TRANS. DEV.	Ronald P. Bohannon	11-19-91	WASTE WATER	William	11-19-91
HYDROLOGY	Steve Bohannon	11-18-91			

PROJECT NO. **4160.90** MAP NO. **D-18** SHEET **16** OF **33**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	11-19-91	ELEV. = 5235.67	11-19-91	DATE	THOMAS R. MANN	DATE	DATE
INSPECTED BY	11-19-91	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED	11-19-91	DATE	& ASSOCIATES	DATE	DATE
FIELD VERIFICATION BY	11-19-91	*11-D-18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 18' SOUTH OF PASO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE	11-19-91	DATE	GEOSURVEYS	DATE	DATE
RECORDED BY	11-19-91		11-19-91	DATE		DATE	DATE
				DATE		DATE	DATE



WATER SYSTEM DETAIL

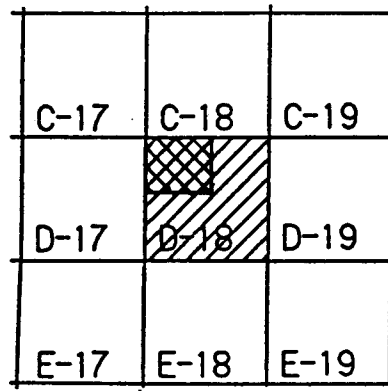
WATER SHUTOFF PLAN
GENERAL NOTES

- CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WATER SHUTOFFS WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (TELEPHONE 857-8200) A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PROPOSED WATER SHUTOFF DATE.
- CONTRACTOR SHALL COORDINATE THE OPERATION OF ALL VALVES AND FIRE HYDRANTS REQUIRED TO IMPLEMENT THE SHUTOFF PLAN WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION. WATER SYSTEM VALVES AND HYDRANTS SHALL BE OPERATED ONLY BY CITY OF ALBUQUERQUE WATER SYSTEMS PERSONNEL.
- IF EMERGENCY SHUTOFFS ARE REQUIRED BECAUSE OF CONSTRUCTION RELATED CAUSES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF ALBUQUERQUE WATER SYSTEMS ENGINEER (TELEPHONE 857-8200). CONTRACTOR SHALL COOPERATE FULLY WITH THE WATER SYSTEMS DIVISION. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE EMERGENCY SHUTOFF OF THE EMERGENCY SHUTOFF AND THE ESTIMATED TIME WHEN WATER SERVICE WILL BE RESUMED.

WATER SHUTOFF PLAN
6" WATERLINE RELOCATION AT SAN PEDRO DRIVE/
SOUTH DOMINGO BACA CHANNEL CROSSING

- CONTRACTOR SHALL PREPARE AND DISTRIBUTE WRITTEN NOTICE OF THE WATER SHUTOFF TO ALL WATER USERS TO BE AFFECTED BY THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. THE WRITTEN NOTICE SHALL INCLUDE THE CONTRACTOR'S NAME, ADDRESS AND LOCAL TELEPHONE NUMBER, AND THE DATE, TIME, AND ESTIMATED DURATION OF THE SHUTOFF. THE WATER USER AREA TO BE AFFECTED BY THE SHUTOFF SHALL BE DETERMINED BY THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION.
- CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT OF THE LOCATION OF FIRE HYDRANTS TO BE AFFECTED BY THE SHUTOFF AND THE TIME AND DURATION OF THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. UPDATE AS NECESSARY.
- INSTALL NEW 6" PVC C-900 WATERLINE, FITTINGS AND THRUST RESTRAINT AS SHOWN ON PLAN. PROVIDE TEMPORARY FITTINGS AND THRUST RESTRAINT AS REQUIRED FOR PRESSURE TESTING AND DISINFECTION. PRESSURE TEST, DISINFECT AND FLUSH.
- CLOSE VALVES 402, 404, AND 404A (NEW VALVE).
- CUT EXISTING 6" C.I. WATERLINE, DRAIN AND CONNECT NEW 6" PVC C-900 WATERLINE AS SHOWN ON PLAN.
- OPEN VALVES 402, 404 AND 404A. LEAVE ALL VALVES OPEN FULL.
- FLUSH THROUGH HYDRANT EAST OF VALVE 404A.

1 NO PROJECT
2 03-11-97
3 03-13-72
4 03-15-73
5 03-17-73
6 03-18-70
7 03-18-72
8 03-2-73
9 03-22-71
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16 03-30-88
17 03-34-70
18 03-35-72
19 03-37-70
20 03-37-71
21 03-47-71
22 03-47-72
23 03-47-72
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39 03-47-72
40 03-47-72
41 03-47-72
42 03-47-72



LOCATION MAP

0 100 200 400 600
1 Inch = 380 Feet

WATER
D-18

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPT.

Created April 03, 1991

WATER SHUTOFF PLAN
NEW 6" VALVE INSTALLATION AT
SAN BERNARDINO AVENUE

- CONTRACTOR SHALL PREPARE AND DISTRIBUTE WRITTEN NOTICE OF THE WATER SHUTOFF TO ALL WATER USERS TO BE AFFECTED BY THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. THE WRITTEN NOTICE SHALL INCLUDE THE CONTRACTOR'S NAME, ADDRESS AND LOCAL TELEPHONE NUMBER, AND THE DATE, TIME, AND ESTIMATED DURATION OF THE SHUTOFF. THE WATER USER AREA TO BE AFFECTED BY THE SHUTOFF SHALL BE DETERMINED BY THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION.
- CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT OF THE LOCATION OF FIRE HYDRANTS TO BE AFFECTED BY THE SHUTOFF AND THE TIME AND DURATION OF THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. UPDATE AS NECESSARY.
- CLOSE VALVES 402, 404, 431A AND 432.
- CUT EXISTING 6" C.I. WATERLINE, DRAIN AND INSTALL NEW 6" GATE VALVE, BOX AND COVER AND THRUST RESTRAINT AT LOCATION SHOWN ON PLAN.
- OPEN HYDRANT AT VALVE 431A TO RELEASE AIR. OPEN VALVE 402 AND SLOWLY FILL NEW WATERLINE. DISINFECT. FLUSH THROUGH HYDRANT AT VALVE 431A.
- OPEN VALVES 404, 432, 431A. LEAVE ALL VALVES OPEN FULL.

WATER SHUTOFF PLAN
6" WATERLINE LOWERING AT RANCHITOS AVENUE
(IF REQUIRED FOR CATTLE GUARD INLET CONSTRUCTION)

- CONTRACTOR SHALL PREPARE AND DISTRIBUTE WRITTEN NOTICE OF THE WATER SHUTOFF TO ALL WATER USERS TO BE AFFECTED BY THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. THE WRITTEN NOTICE SHALL INCLUDE THE CONTRACTOR'S NAME, ADDRESS AND LOCAL TELEPHONE NUMBER, AND THE DATE, TIME, AND ESTIMATED DURATION OF THE SHUTOFF. THE WATER USER AREA TO BE AFFECTED BY THE SHUTOFF SHALL BE DETERMINED BY THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION.
- CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT OF THE LOCATION OF FIRE HYDRANTS TO BE AFFECTED BY THE SHUTOFF AND THE TIME AND DURATION OF THE SHUTOFF TWO (2) WORKING DAYS PRIOR TO THE SHUTOFF. UPDATE AS NECESSARY.
- CLOSE VALVES 451, 452 AND 451A.
- CUT EXISTING 6" C.I. WATERLINE, DRAIN, REMOVE AND DISPOSE. INSTALL NEW 6" PVC C-900 WATERLINE AT LOWER ELEVATION, 2EA 45° BENDS, THRUST RESTRAINT AT LOCATION SHOWN ON PLAN.
- OPEN HYDRANT AT VALVE 451A TO RELEASE AIR. OPEN VALVE 452 SLOWLY FILL NEW WATERLINE. DISINFECT. FLUSH THROUGH HYDRANT AT VALVE 451A.
- OPEN VALVES 451, 452 AND 451A. LEAVE ALL VALVES OPEN FULL.

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



1 2 3 4 5 6 7 8 9 10 11 12
26 41 40 90 1893

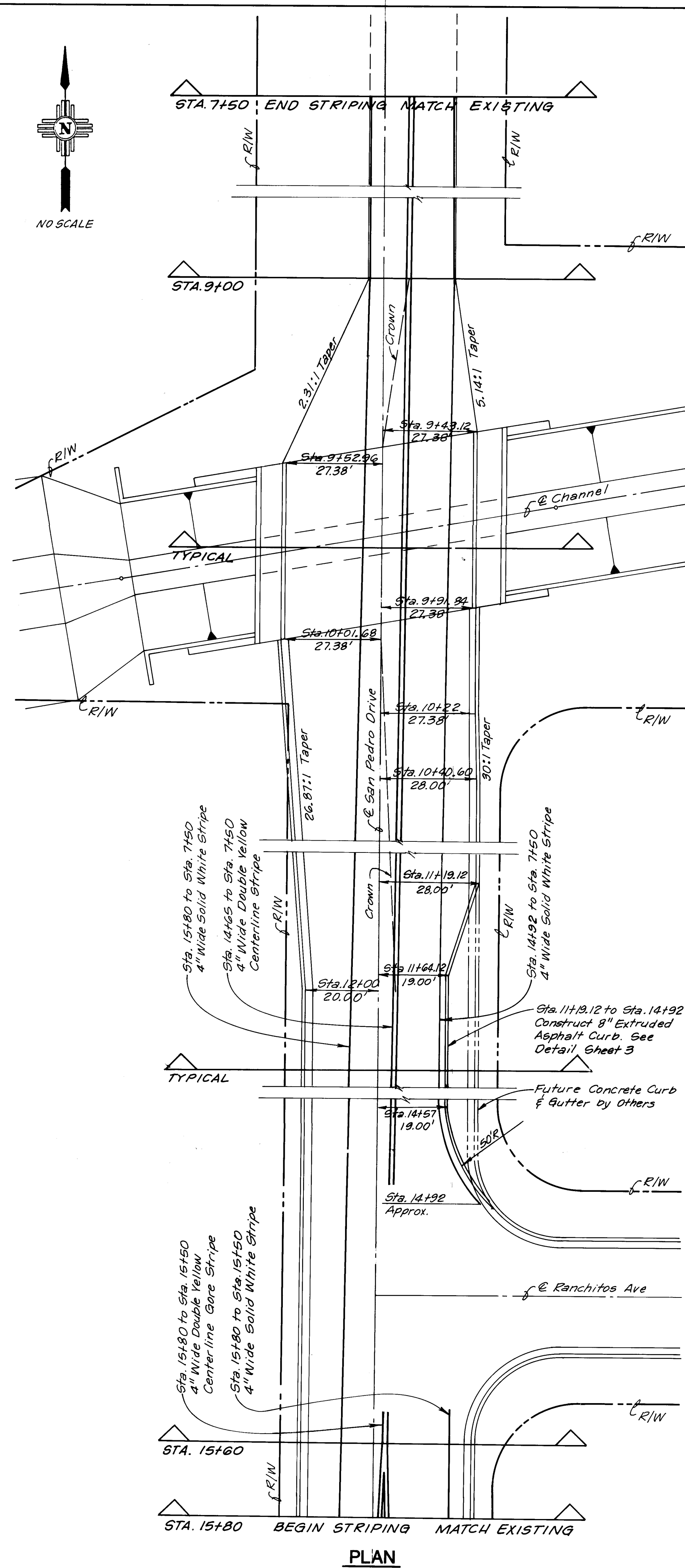
EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

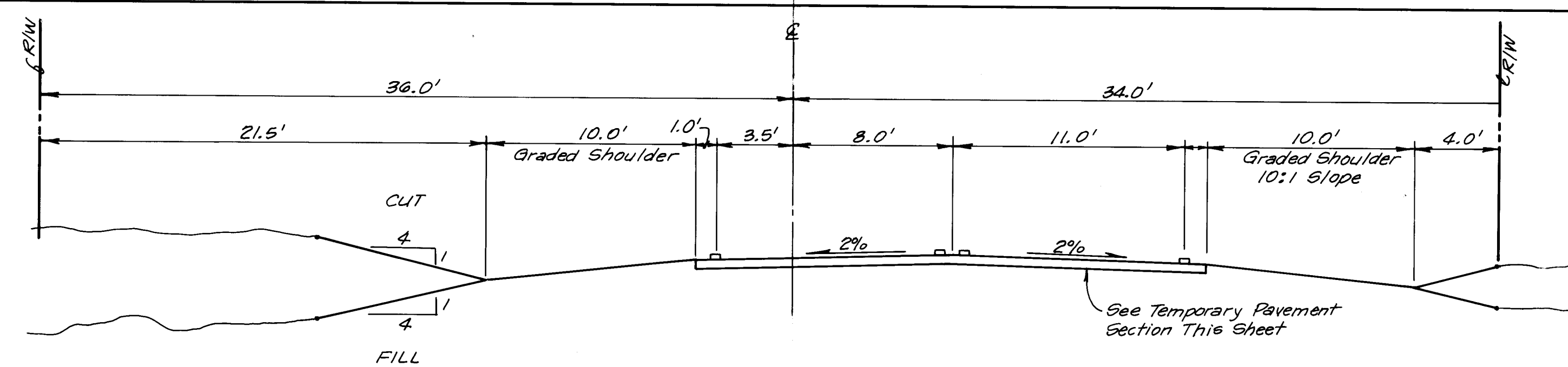
TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
WATER SHUTOFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11-19-91	WATER	ALLAN	11-19-91
TRANS. DEV.	R. Bohannon	11-19-91	WASTE WATER	ALLAN	11-19-91
HYDROLOGY	Steve Bohannon	11-19-91			

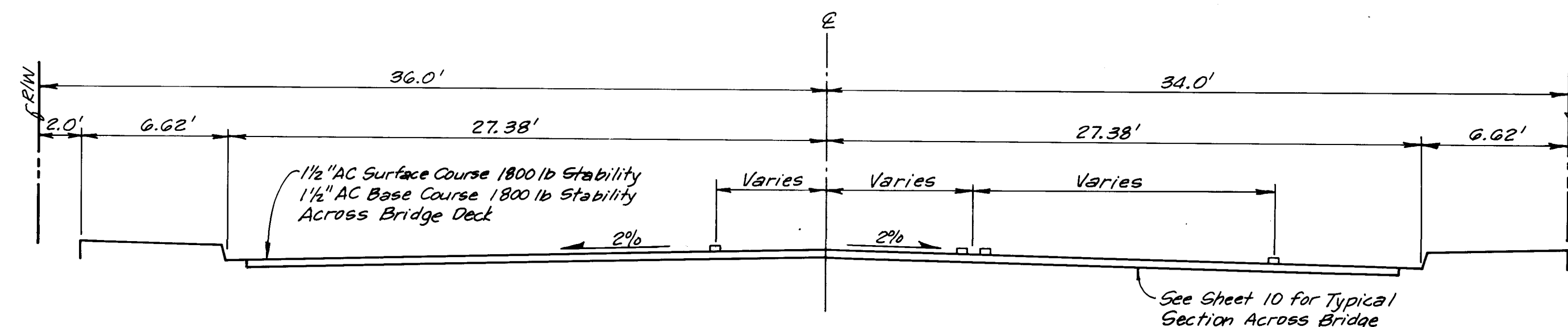
PROJECT NO. 4160.90 MAP NO. D-18 SHEET 18 OF 33



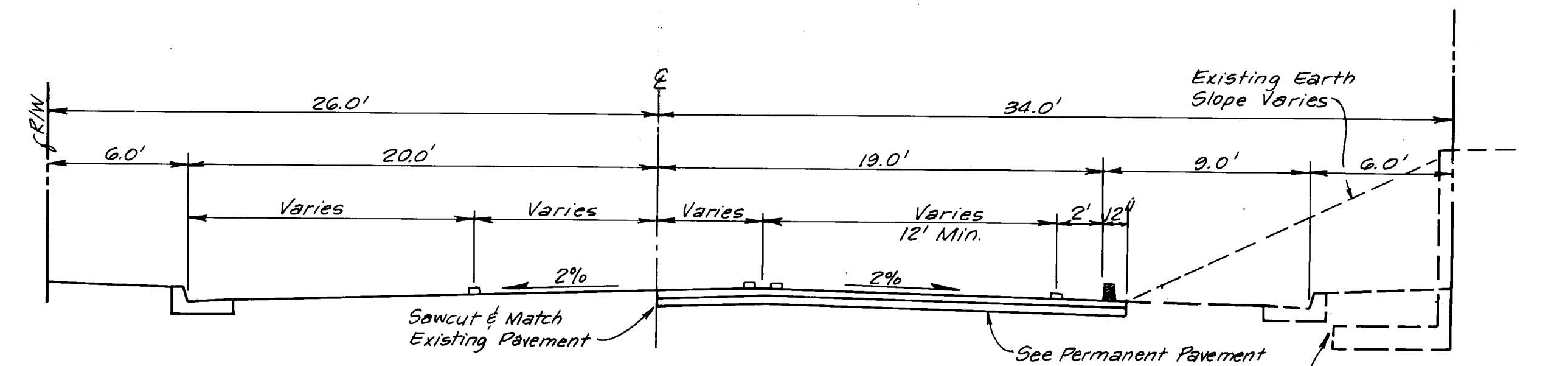
SAN PEDRO DRIVE TYPICAL SECTION
STA. 9+00 TO STA. 7+50



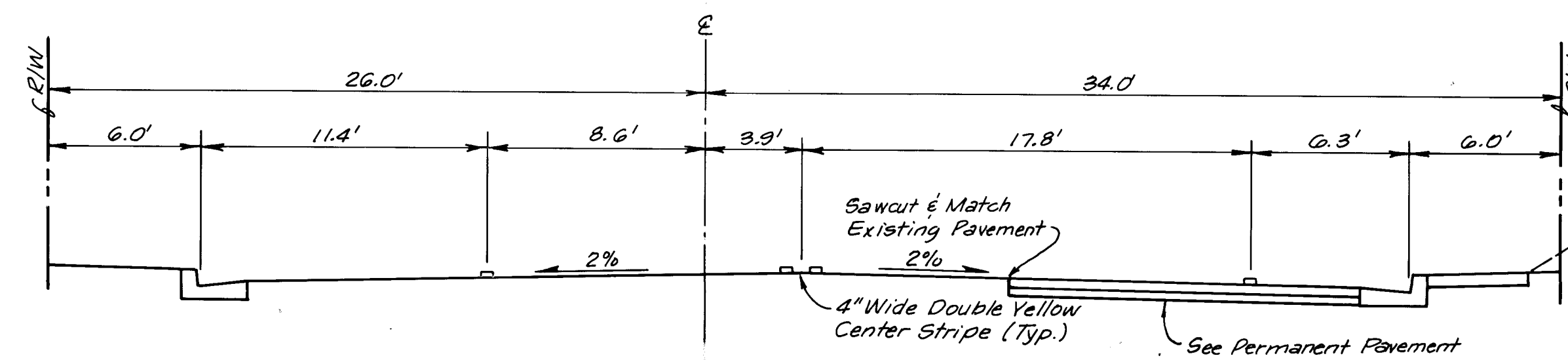
SAN PEDRO DRIVE TYPICAL SECTION.
STA. 9+91.84 TO STA. 9+52.96



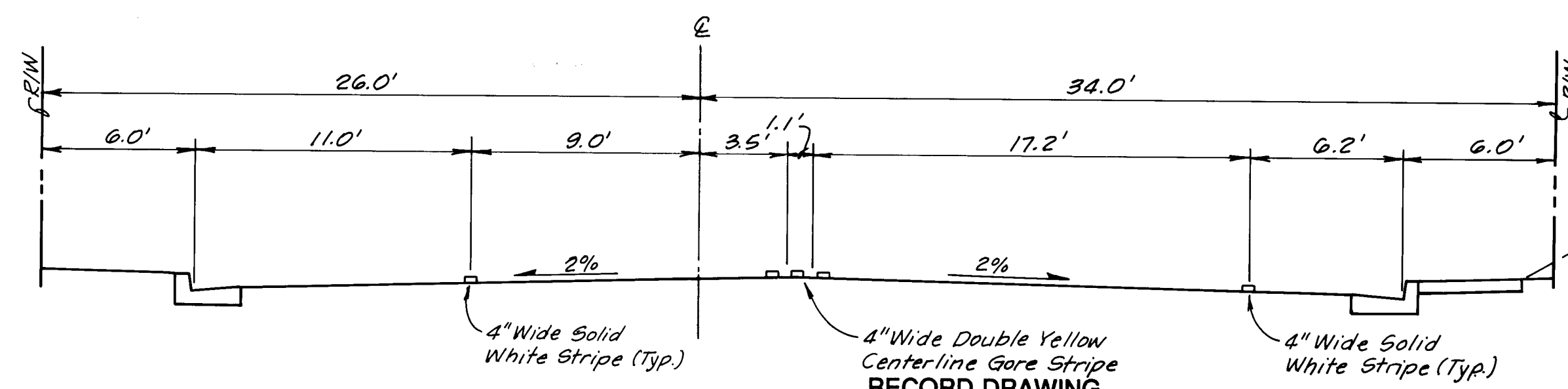
SAN PEDRO DRIVE TYPICAL SECTION
STA. 14+57 TO STA. 11+64.12



SAN PEDRO DRIVE
CL STA. 15+60



SAN PEDRO DRIVE
CL STA. 15+80



I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 2214

GENERAL NOTES:

1. **STRIPING ALIGNMENT BETWEEN STATION 15+80 AND STATION 15+80 IS BASED ON A 20' LINEAR TRANSITION FROM CROSS SECTION AT STATION 15+80 TO CROSS SECTION AT STATION 15+80.**
2. **CENTERLINE STRIPING ALIGNMENT BETWEEN STATION 15+80 AND STATION 9+00 IS BASED ON A 660' LINEAR TRANSITION FROM CROSS SECTION AT STATION 15+80 TO CROSS SECTION AT STATION 9+00.**
3. **STRIPING BETWEEN STATION 9+00 AND STATION 7+50 IS PARALLEL TO SAN PEDRO DRIVE CENTERLINE.**

SURVEY INFORMATION			BENCH MARKS		AS-BUILT INFORMATION	
NO.	FIELD NOTES		11-D-18	ELEV. = 5235.67	CONTRACTOR <i>Benner Crest</i>	
	BY	DATE			STARTED BY <i>C.C.A.</i>	DATE
	THOMAS R. MANN & ASSOCIATES	9/81	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED "11-D-18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 69' SOUTH OF PASEO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.		INSPECTIONS ACCEPTANCE BY <i>C.C.A.</i>	DATE
	GEOSURVEYS	9/81			VERIFICATION BY <i>C.C.A.</i>	DATE
					DRAWINGS CORRECTED BY <i>Engineering Assoc.</i>	DATE
					MICRO-FILM INFORMATION	
					RECORDED BY	DATE
					NO.	

[illegible]

Diagram illustrating the typical section of a pavement structure, showing the following layers from top to bottom:

- 5/8" PLANT MIX BITUMINOUS PAVEMENT SEAL COAT
- 1 1/4" AC SURFACE COURSE 1800 LB STABILITY
- 2 1/4" AC BASE COURSE 1800 LB STABILITY
- 6" AGGREGATE BASE COURSE (ABC) 85% COMPACTION ASTM D-1557
- 12" COMPACTED SUBGRADE ASTM D-1557

95% COMPACTION
PERMANENT PAVING
TYPICAL SECTION

1 1/2" AC SURFACE COURSE
1800 LB STABILITY

2 1/2" AC BASE COURSE
1800 LB STABILITY

4" AGGREGATE BASE COURSE
(ABC) 95% COMPACTION
ASTM D-1557

12" COMPACTED SUBGRADE
ASTM D-1557
95% COMPACTION

**TEMPORARY PAVING
TYPICAL SECTION**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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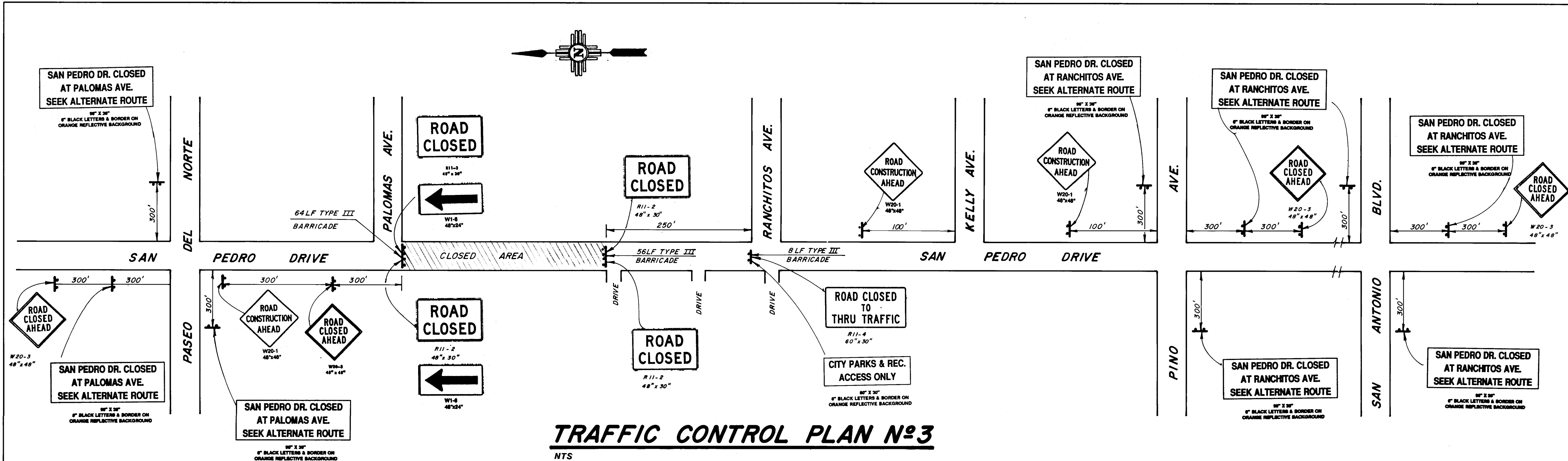
EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SAN PEDRO DRIVE CROSSING
SOUTH DOMINGO BACA ARROYO LINING
SAN PEDRO DRIVE PAVEMENT MARKING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>Ronald L. Chan</i>	11-19-91	WATER	<i>ALD</i>	11-19-91
TRANS. DEV.	<i>R. Dwyer</i>	11-18-91	WASTE WATER	<i>ALD</i>	"
HYDROLOGY	<i>Steven Bolong</i>	11-18-91			

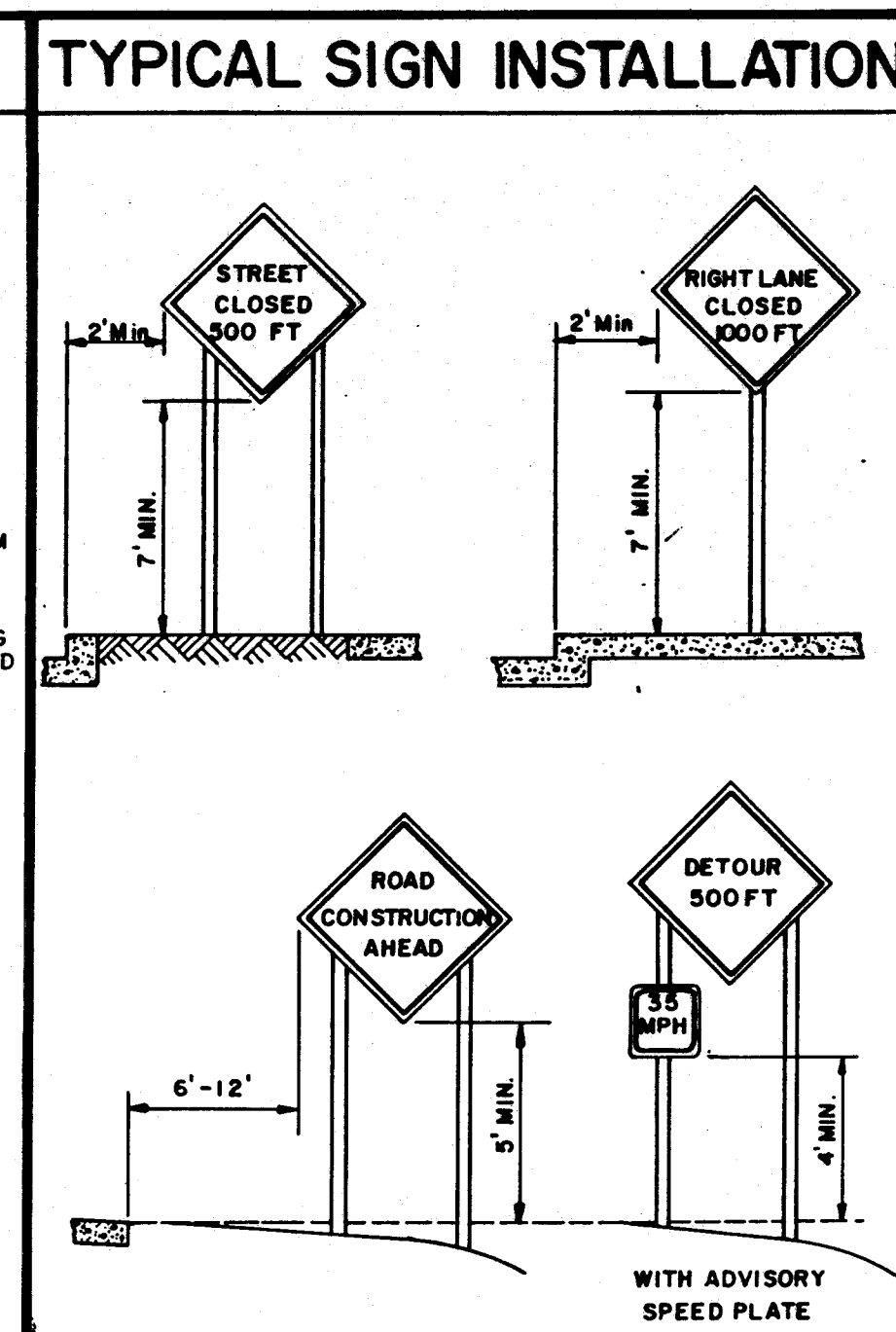
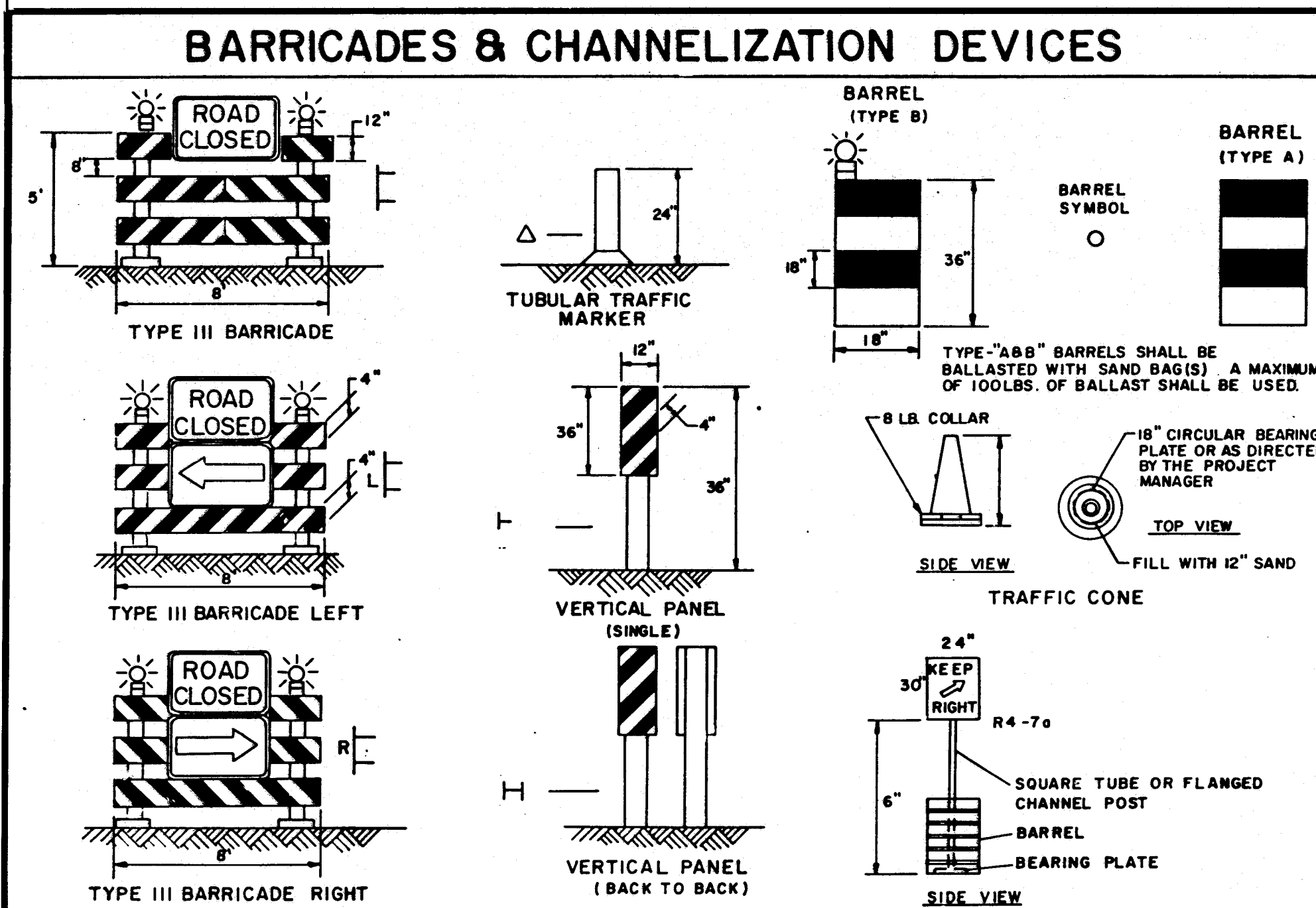
PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	19	OF	33
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TRAFFIC CONTROL PLAN N°3
NTS

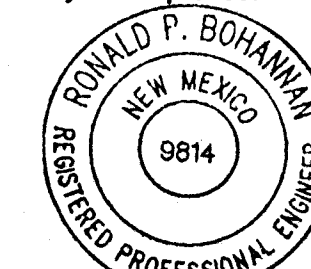
TRAFFIC CONTROL NOTES:

1. REFER TO NOTES ON SHEET 20.



1 2 3 4 5 6 7 8 9 10 11 12
26 4160.902193

RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.

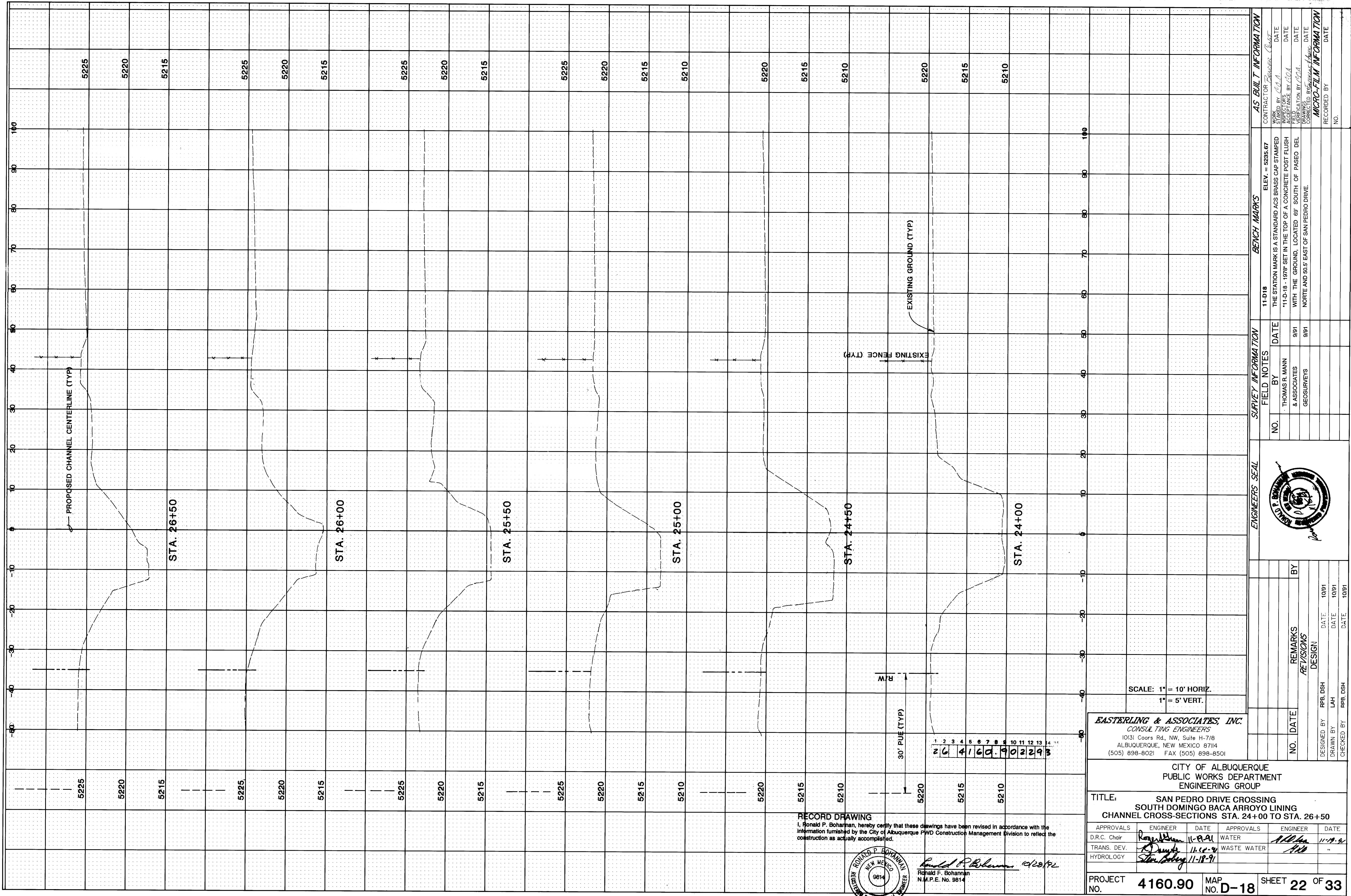


Ronald P. Bohannon 10/28/92
Ronald P. Bohannon
N.M.P.E. No. 9814

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
1031 Coors Rd., NW, Suite H-718
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021 FAX (505) 898-8501

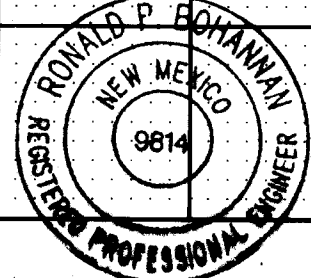
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING TRAFFIC CONTROL PLANS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. Bohannon</i>	11-19-91	WATER	<i>A. Bohannon</i>	11-19-91
TRANS. DEV.	<i>R. Bohannon</i>	11-18-91	WASTE WATER	<i>A. Bohannon</i>	"
HYDROLOGY	<i>R. Bohannon</i>	11-18-91			
CONST. COORD.	<i>R. Bohannon</i>	11-19-91			
PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	21 OF 33

SCANNED BY
BY LASON



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.

Ronald P. Bohannon 11/18/91
Ronald P. Bohannon
N.M.P.E. No. 9814



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SAN PEDRO DRIVE CROSSING SOUTH DOMINGO BACA ARROYO LINING CHANNEL CROSS-SECTIONS STA. 24+00 TO STA. 26+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>Ronald P. Bohannon</i>	11-18-91	WATER	<i>Ronald P. Bohannon</i>	11-18-91
TRANS. DEV.	<i>Ronald P. Bohannon</i>	11-18-91	WASTE WATER	<i>Ronald P. Bohannon</i>	11-18-91
HYDROLOGY	<i>Ronald P. Bohannon</i>	11-18-91			
PROJECT NO.	4160.90	MAP NO.	D-18	SHEET	22 OF 33

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	11-D18	ELEV. = 5235.67	CONTRACTOR	WORK
THOMAS R. MANN & ASSOCIATES	9/91	THE STATION MARK IS A STANDARD ACS BRASS CAP STAMPED "11-D18 - 1978" SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED 69' SOUTH OF PASEO DEL NORTE AND 50.5' EAST OF SAN PEDRO DRIVE.		INSPECTOR'S ACCEPTANCE BY	DATE
GEOSURVEYS	9/91			VERIFICATION BY	DATE
				DRAWINGS BY	DATE
				RECORDED BY	DATE
				NO.	

ENGINEER'S SEAL		REVISIONS		BY	
		NO.	DATE	REMARKS	DATE
				DESIGN	
				PPB, DSH	10/91
				LAH	10/91
				PPB, DSH	10/91

